



Centro de Estatística e Aplicações
Universidade de Lisboa

Centre of Statistics and its Applications

CEAUL

Annex to the 2016 report

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PUBLICATIONS 2016

(Members of CEAUL underlined)

BOOKS INTERNATIONAL

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

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

[#] Listed as a book in the point 4 of the report.

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

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

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

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

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

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

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

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

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PARTICIPATION in CONFERENCES

Plenary talks

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

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

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

Invited talks

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

https://www.ensp.unl.pt/ensp/noticias-2/Programa%20-%20Resumos_WorkshopNOVA.DGSEpidemiologia.Cancroll.pdf

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

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

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

CONTRIBUTED TALKS and POSTERS in 2016

International

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

http://www.iwms.ipt.pt/?page=sientific_programme.

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

https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last_ISBIS_FINAL-FF-UAb.pdf

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

https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last_ISBIS_FINAL-FF-UAb.pdf

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

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

https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last_ISBIS_FINAL-FF-UAb.pdf

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

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

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

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

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

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

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

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

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

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

Nunes, S. (2016). *An Introduction to Item Response Theory*. III Workshop on Computational Data Analysis and Numerical Methods, Portalegre, Portugal, 2016. Co-authors: **Oliveira, T.A.** & **Oliveira, A.**
<http://iiiwcdanm2016.yolasite.com/>

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

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

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

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

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

http://history.icnaam.org/icnaam_2016/index.html

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

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

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

https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last_ISBIS_FINAL-FF-UAb.pdf

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

https://repositorioaberto.uab.pt/bitstream/10400.2/5732/1/last_ISBIS_FINAL-FF-UAb.pdf

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

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

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

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

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

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

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MASTER DISSERTATIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PH.D. THESES

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

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

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

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

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

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

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

PROJECTS RUNNING in 2016

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

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

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

http://cordis.europa.eu/project/rcn/110453_en.html

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

http://www.cost.eu/COST_Actions/ict/IC1408

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

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

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

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

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

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

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

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

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

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

Oliveira, T.A. — Membro do Projeto: *Soluções Tecnológicas para a Adequação da Paisagem Rural ao Código Florestal Brasileiro*. Sigla: SOLCOF; *Technologies solutions for implementing the new Brazilian Environmental Law*. Programa de Financiamento / Entidade Financiadora: Departamento de Transferencia de Tecnologia Código:SEG: 05.13.25.008.00.00, Data de Início: 2014/05/01, Data de Fim: 2018/04/30. Orçamento Total / UAb: 1.277.100,00 (reais)/ 0
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Papoila, A.L., (team member) *“Lesão tubular renal em doentes VIH: progressão e interacção”*, Programa Gilead GÉNESE, Refª - PGG/032/2015 - Projeto Científico. Financiado com 10.000,00 €. Miriam Karina Soto Rios (investigadora principal)

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

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

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

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

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

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

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

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

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

Turkman, K.F., Amaral Turkman, M.A. & Antunes, M. (CEAUL team members) - PERSSILAA, SEVENTH FRAMEWORK PROGRAMME. Project full title: “*PERSONALISED ICT Supported Service for Independent Living and Active Ageing*”, Grant agreement no: 610359, Call (part) Identifier FP7-ICT-2013-10. Portuguese Coordinator: Amélia Pilar Rauter (FCUL), (11/2013-11/2016).
<https://persilaa.com/>

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

ORGANIZATION of INVITED SESSIONS, SEMINARS and CONFERENCES

Seminars organized directly by CEAUL

(14)

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

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

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

Organized directly by CEAUL members

(11)

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

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

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

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

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

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

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

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

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

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

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

http://history.icnaam.org/icnaam_2016/index.html

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

Scientific and Organizing committees

(26)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ADVANCED and SPECIALIZED TRAINING

Organized by CEAUL

(1)

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

Lectured by members of CEAUL

(8)

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

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

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

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

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

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

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

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

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

GRANTS

PRIZES

(4)

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

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

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

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

CONSULTANCY 2016

(4)

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

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

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

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

REPORTS

(11)

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

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

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

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

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

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

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

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

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

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

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