

Annex to the 2023 Report

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CEAUL REPORT

(Members of CEAUL in bold and underlined)

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Gomes MI, **Oliveira TA**, **Oliveira A**, Pestana P and Xu M (2023). *2023 Institute Of Mathematical Statistics (IMS) International Conference On Statistics And Data Science (ICSDS): Program Book*, IMS-Institute of Mathematical Statistics, ISBN: 978-0-940600-86-7, URL: <https://sites.google.com/view/icsds2023/full-program-book>

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Valongo A and **Felqueiras M** (2023). “*Neighborhood, continuity and limit - connecting the dots*”

using AiC framework.”, 23th CMMSE, Cádiz, Spain, Jul 3-8,

URL: <https://cmmse.usal.es/cmmse2023/>.

Vasconcelos J, Vaz B, Sousa S, Alves M, Papoila AL and Vasconcelos A (2023). “Neonatal sepsis in a resource-constrained country without blood cultures”, ESPID 41st Annual Meeting of the European Society for Paediatric Infectious Diseases, Lisbon, Portugal, May 8-14,

URL: <https://2023.espidmeeting.org/>.

Contributed Poster (National)

(15)

Alves J, Palmela Pereira C and Santos R (2023). “Desempenho de metodologias de classificação sexual baseadas em ortopantomografias”, XXVI Congress of the Portuguese Statistical Society, Guimarães, Oct 11-14,

URL: <https://w3.math.uminho.pt/SPE2023/programa.html#>.

Brilhante MF, Pestana P, Rocha ML and Sequeira F (2023). “Risk Assessment of Vulnerabilities Exploitation”, XXVI Congress of the Portuguese Statistical Society, Guimarães,

Oct 11-14, URL: <https://w3.math.uminho.pt/SPE2023/>, Abstract available at:

https://w3.math.uminho.pt/SPE2023/img/Programa_e_LResumos.pdf.

Figueiredo FO and Figueiredo AM (2023). “Are the European countries well prepared for the new technological challenges?”, XXX Meeting of the Portuguese Association for Classification and Data Analysis (JOCLAD 2023), Viana do Castelo, Apr 20-22, URL: <https://clad.pt/en/joclad-2023>.

Figueiredo FO, Figueiredo AM and Gomes MI (2023). “Data Mining and Statistical Quality Control”, XXVI Congress of the Portuguese Statistical Society, Guimarães, Oct 11-14, URL:

<https://w3.math.uminho.pt/SPE2023/>, URL:

[https://www.researchgate.net/publication/374743776 Data Mining and Statistical Quality Control](https://www.researchgate.net/publication/374743776_Data_Mining_and_Statistical_Quality_Control).

Ginete C, Delgado M, Santos B, Miranda A, Silva C, Guerreiro P, Chimusa ER and Brito M (2023). “Genetic Modifiers of Sickle Cell Anemia Severity in an Angolan Cohort”, 27^a Reunião Anual SPGH, Lisbon, Nov 23-25.

Gouveia-Reis D, Lopes LG and Mendonça S (2023). “Selection of Models and Thresholds in the Peaks- Over-Threshold (POT) Methodology: Application to Extreme Precipitation Values in Madeira and Porto Santo Islands”, XXVI Congress of the Portuguese Statistical Society,

Guimarães, Oct 11-14, URL: <https://w3.math.uminho.pt/SPE2023/programa.html#>, Program and Book of Abstracts in https://w3.math.uminho.pt/SPE2023/img/Programa_e_LResumos.pdf.

Machado M, Diamantino F and Canto e Castro L (2023). “*Desvendando o Sucesso Escolar: Uma Jornada Através dos Modelos Lineares Hierárquicos no Contexto dos Estudantes Portugueses*”, XXVI Congress of the Portuguese Statistical Society, Guimarães, Oct 11-14, URL: https://w3.math.uminho.pt/SPE2023/img/Programa_e_LResumos.pdf.

Marques CS, Dufourq E, Donovan C, Marcoux M and Marques TA (2023). “*Creating training data sets for the automatic identification of wildlife sounds: a narwhal example*”, Science Meeting 2023: “Ciência e Oceano para além do horizonte”, Aveiro, Jul 5-7, URL: <https://www.encontrociencia.pt/2023/pt>.

Mendonça S, Pestana D and Velosa S (2023). “*Count Models and Randomness Patterns*”, XXVI Congress of the Portuguese Statistical Society, Guimarães, Oct 11-14, URL: <https://w3.math.uminho.pt/SPE2023/>, Abstract available at: https://w3.math.uminho.pt/SPE2023/img/Programa_e_LResumos.pdf.

Pestana D, Brilhante MF, Gomes MI, Mendonça S and Pestana P (2023). “*Population Growth and Geometrically Thinned EVT*”, XXVI Congress of the Portuguese Statistical Society, Guimarães, Oct 11-14, URL: <https://w3.math.uminho.pt/SPE2023/>, Abstract available at: https://w3.math.uminho.pt/SPE2023/img/Programa_e_LResumos.pdf.

Pires S, **Ramos MR** and Fernandes AP (2023). “*Prediction of Perceived Depression for SHARE Survey Data in COVID 19 Waves*”, XXVI Congress of the Portuguese Statistical Society, Guimarães, Oct 11-14, URL: <http://https://w3.math.uminho.pt/SPE2023/>.

Rocha JL, Carvalho S and Coimbra B (2023). “*Probabilistic Procedures for SIR and SIS Epidemic Dynamics on Contact Random Networks*”, XXVI Congress of the Portuguese Statistical Society, Guimarães, Oct 11-14, URL: <https://w3.math.uminho.pt/SPE2023/>.

Santos D, **Santos R** and Ferreira S (2023). “*Estilo de vida e bem-estar dos estudantes do Politécnico de Leiria*”, XXVI Congress of the Portuguese Statistical Society, Guimarães, Oct 11-14, URL: <https://w3.math.uminho.pt/SPE2023/>.

Sousa-Ferreira I, Rocha C and Abreu AM (2023). “*Parametric cure models with application to hospital readmission data*”, Science 2023 – Meeting with Science and Technology in Portugal, Aveiro, Portugal, Jul 5-7, URL: <https://www.encontrociencia.pt/2023/en>.

Torres M, Nunes A and **Martins JP** (2023). “*Os Anos De Vida Saudável Perdidos Nas Doenças*”

Não Comunicáveis Na União Europeia”, XXVI Congress of the Portuguese Statistical Society, Guimarães, Oct 11-14, URL: <https://w3.math.uminho.pt/SPE2023/>.

Seminars by Invitation

(12)

Carrasquinha E, Veríssimo A, Lopes MB and Vinga S (2023). “*Regularization and network-based techniques: an application to melanoma cancer*”, Seminar in Data Science, FCUL, Dec 15.

Cordeiro C (2023). “*Os dados não são perfeitos!*”, Cycle of Seminars in Applied Mathematics and Data Science (CS-MACD), Department of Mathematics of the School of Science and Technology of the University of Trás-os-Montes and Alto Douro, online, June 7, URL: <https://sites.google.com/view/cs-macd/home>.

de Zea Bermudez P (application joint work with André L) (2023). “*Copula models - Application to observed and simulated wind speed data*”, Doctoral Program of Applied Physical Sciences, Department of Physics (UTAD), Vila Real, Portugal, May 30, Seminar presented by zoom.

Martins JP (2023). “*Meta-análise em Saúde*”, Joint seminar between CEAUL and CEMAT, Online (ZOOM), Jan 18, URL: <https://ceaul.org/eventos/seminarios/>.

Martins R (2023). “*Bayesian prediction of football outcomes*”, Biostatistics seminars – Master in Biostatistics, Department of Statistics and Operations Research, DEIO/FCUL, Dec 6, URL: <http://ceaul.org/bayesian-prediction-of-football-outcomes/>.

Nascimento AP and **Martins JP** (2023). “*Revisão sistemática e Meta-Análise em Saúde*”, IV Cycle of Seminars in Biostatistics and Bioinformatics, Oporto, Oct 4, URL: <https://www.ess.ipp.pt/noticias/seminario-em-revisao-sistemática-e-meta-análise-em-saude-1>.

Ramos FR (2023). “*Deep Neural Networks: uma abordagem híbrida com recurso à metodologia de Box&Jenkins*”, Cycle of Seminars in Data Analytics – Edition 2, Lisbon – European University, Jul 29, URL: <https://www.youtube.com/watch?v=SLkph3TXjK0>.

Ramos SF (2023). “*Análise Bayesiana de Dados*”, Seminars for the Master's Degree in Biostatistics and Bioinformatics Applied to Health at the Escola Superior de Saúde, Escola

Superior de Saúde, Oporto, Oct 25.

Rocha JL and Taha A-K (2023). “*Lambert W Functions in the Analysis of Nonlinear Dynamics and Bifurcations of a 2D Gamma-Ricker Model*”, Seminar in Department of Electrical and Computer Engineering, INSA - Toulouse, National Institute of Applied Sciences of Toulouse, Federal University of Toulouse Midi-Pyrénées, Oct 5.

Santos R (2023). “*Análise e Tratamento de Dados*”, Open class for students of master’s degrees in Management Control, Business Finance, Relationship Marketing, International Business and Entrepreneurship and Innovation, Escola Superior de Tecnologia e Gestão do Politécnico de Leiria, Oct 27.

Santos R (2023). “*Classification and estimation performance measures in Data Science*”, Virtual I.O.F.O.S (International Organization of Forensic Odonto-Stomatology) webinar, Oct 28.

Silva GL, Krainski E, Rustand R, Rue H (2023). “*Joint Spatio-temporal Modeling of Different Types of Outcomes: An Application to Forest Fires under a Bayesian Approach*”, Mathematics Seminars, Department of Mathematics, National University of the South, Argentina, Jul 14, URL: <https://www.matematica.uns.edu.ar/default.php>.

SUPERVISION

Ph.D. Theses

(6)

Antunes M (supervisor): João David Ferreira de Castro Albuquerque. PhD in Metabolism - Clinic and Experimentation. Thesis: “Development and Validation of Screening Methods Applied to Familial Hypercholesterolemia Diagnosis”. Co-Supervisors: Mafalda Bourbon (INSA) and Raquel Soares (FMUP). Discussed on Jul 11. Faculty of Medicine of the University of Porto. URL: https://sigarra.up.pt/fmup/pt/noticias_geral.ver_noticia?p_nr=87257.

Antunes M (co-supervisor): Joana Rita Gaspar de Barros Martinho Chora. PhD in Biology. Thesis: “Personalized Medicine in Familial Hypercholesterolemia – diagnosis, stratification of cardiovascular disease risk and lipid therapy management”. Supervisor: Mafalda Bourbon (INSA). Discussed on June 7. Online. Faculty of Sciences - University of Lisbon. URL: <https://epg.ulisboa.pt/prova-academica/personalized-medicine-familial-hypercholesterolemia-diagnosis-stratification>.

Fraga Alves MI (supervisor): Jéssica Silva Lomba. PhD in Statistics and Operational Research – Probability and Statistics. Thesis: "Contributions to Inference in Extremes based on Moment type Statistics. Co-Supervisor: **Neves C** (King's College London, England). Discussed on Jul 11. Online, Faculty of Sciences - University of Lisbon. URL: <https://epg.ulisboa.pt/prova-academica/contributions-inference-extremes-based-moment-type-statistics>.

Gomes JJ (supervisor): José Henrique Dias Gonçalves. PhD in Statistics and Operational Research. Thesis: "Modelos de Probabilidade e Estatística aplicados à Decisão Empresarial". Discussed on Apr 28. Online. Faculty of Sciences - University of Lisbon. URL: <https://epg.ulisboa.pt/prova-academica/modelos-de-probabilidade-e-estatistica-aplicados-decisao-empresarial>.

Oliveira TA (Co-supervisor): Carolina Soares Bueno. PhD in Education, Thesis: "Um panorama das discussões sobre o pensamento computacional e sua inserção na educação básica". Supervised by Professor Luciane Mulazani dos Santos, Discussed on Jul 10, Santa Catarina State University - UDESC, Florianópolis, Brazil, URL: <https://www.udesc.br/faed/ppge/teses/2023>

Rocha C and Abreu A (Supervisors): Ivo Miguel Sousa Ferreira. PhD in Statistics and Operational Research – Probability and Statistics. Thesis: "Modelos de Sobrevivência Paramétricos para Acontecimentos Recorrentes". Discussed on May 19. Online. Faculty of Sciences - University of Lisbon. URL: <https://epg.ulisboa.pt/prova-academica/modelos-de-sobrevivencia-parametricos-para-acontecimentos-recorrentes>.

Master Dissertations

(40)

Carrasquinha E (Supervisor): Beatriz Pereira. "Multivariate Analysis applied in the study of the nutritional quality of processed products". Master in Biostatistics, Faculty of Sciences – University of Lisbon, Jul 6.

Cordeiro C (Supervisor): Priscila Raquel Fernandes Costa Goela. "Estratégias de Venda no Mercado Imobiliário: O papel da especialização pela angariação ou pela venda na produtividade do consultor em contexto de agência franchisada". Master in Marketing Management, FE, University of Algarve, Mar 1, URL: <https://sapientia.ualg.pt/handle/10400.1/19641>.

de Zea Bermudez P and **Pereira S** (Supervisors): Ricardo Alberto Viegas Barros. "Análise

espacial do número de nascimentos prematuros em Portugal: uma abordagem bayesiana".

Master in Biostatistics, Faculty of Sciences – University of Lisbon, May, URL:

<http://hdl.handle.net/10451/59076>.

de Zea Bermudez P (Supervisor): Filipa Mendes. "Application of extreme value theory to seismology". Master in Statistics and Operations Research, Faculty of Sciences – University of Lisbon, Sept 18, URL: <http://hdl.handle.net/10451/61482>.

Diamantino F (Supervisor): Tiago Morais. "Modelação da tarificação não-vida". Master in Mathematics Applied to Economics and Management, Faculty of Sciences – University of Lisbon, Jul 21, URL: <http://hdl.handle.net/10451/59305>.

Felgueiras M (Supervisor): Ricardo Gomes Dourado Mendes Maria. "Análise temporal da sinistralidade laboral em Portugal de 2009 a 2019: Correlação entre a atividade inspetiva e a sinistralidade laboral". Master in Occupational Health and Safety, ESTeSL – IPL, Oct 20.

Figueiredo FO (Co-supervisor): Emanuel Fernandes Pais. "Analysis of EU Countries' Development through Statis Methodology", Master in Modeling, Data Analysis and Decision Support Systems, FEP, Jul 21, URL: <https://repositorio-aberto.up.pt/handle/10216/151257>.

Gomes JJ (Supervisor): Afonso dos Santos Alves. "Auto insurance: modelling the non-payment of the policy's first instalment". Master in Applied Mathematics in Economics and Management, Faculty of Sciences – University of Lisbon, Nov 7.

Gomes JJ (Supervisor): André Costa Freitas. "O processo de Retificação do GMP de uma pensão do Reino Unido". Master in Applied Mathematics in Economics and Management, Faculty of Sciences – University of Lisbon, Dec 13.

Gomes JJ (Supervisor): Maria Madalena Antunes. "Mecanismos de deteção de fraude em empresas seguradoras". Master in Statistics and Operations Research, Faculty of Sciences - University of Lisbon, Dec 14.

Gonçalves L (Supervisor): Ana Raquel Valente dos Santos Cartaxo. "Testing the validity and reliability of the Austrian version of the revised MISSCARE Survey by means of content validity index and structural equation modelling: An instrument to assess implicit rationing of nursing care in Austrian hospitals". Master in Statistics in Health. Faculty of Science and Technology of the Universidade Nova de Lisboa, May 18.

Gonçalves L (Supervisor): Sheila Cláudia João Nhate. "Avaliação do impacto das ações do controlo do vetor da malária na tendência dos principais indicadores epidemiológicos do

programa da malária nos distritos da Província da Zambézia nos anos 2017-2021". Master Degree in Public Health and Development, Instituto de Higiene e Medicina Tropical - Universidade Nova de Lisboa, Nov 29.

Martins JP (Supervisor): Ana Margarida Carvalho Torres. "Years of healthy life lost due to non-communicable diseases in the European Union". Master in Management of Organizations, branch: Management of Health Units, Escola Superior de Saúde do Instituto Politécnico do Porto, Nov.

Martins JP (Supervisor): André Miguel dos Santos de Castro Martins. "The effectiveness of the flu vaccine. A systematic review with meta-analysis of randomized controlled clinical trials versus observational studies". Master in Pharmacy – Pharmacotherapy and Pharmacoepidemiology, Escola Superior de Saúde do Instituto Politécnico do Porto, June 21.

Martins JP (Supervisor): Daniela Assunção Carneiro Araújo. "The Sonication technique in the diagnosis of Infections Associated with Cardiac Devices Implantable Electronics – Systematic review and Meta-analysis. Master in Clinical Analysis and Public Health - Microbiology and Public Health, Escola Superior de Saúde do Instituto Politécnico do Porto, Nov 21.

Martins R (Supervisor): Daniel Andrade. "Bayesian State Space Models applied to prediction of football results". Master in Applied Mathematics to Economics and Business, Faculty of Sciences - University of Lisbon, Sept 20.

Martins R (Supervisor): Maria Francisca Antão. "Prediction Methods in the analysis of Premature Births". Master in Applied Mathematics to Economics and Business, Faculty of Sciences – University of Lisbon, May 9.

Mouriño H and Batista A (Supervisors): Inês Maria de Freitas Martins. "Preterm Labor Prediction Using Uterine Electromyography with Machine Learning and Deep Learning Models". Master in Biostatistics, FCUL, Oct 4,

URL: https://repositorio.ul.pt/bitstream/10451/61464/1/TM_In%C3%AAs_Martins.pdf.

Mouriño H and Guerra A (Supervisors): Afonso Burnay. "Biomarkers for detection of relapses on patients with prostate tumors operated by radical prostatectomy". Master in Biostatistics, FCUL, Nov 14, URL: https://repositorio.ul.pt/bitstream/10451/61548/1/TM_Afonso_Burnay.pdf.

Oliveira TA and Henning E (Supervisor): Gleice Mendonça Leidenfrost. “Explorando métodos de controle estatístico em cenários epidemiológicos e na gestão de processos – um estudo comparativo”. Master in Statistics, Mathematics and Computation, Open University, Nov 15, URL: <https://repositorioaberto.uab.pt/handle/10400.2/15349>.

Palmela Pereira C and **Santos R**: (Supervisors) - João Ricardo Gregório Alves. “Comparação do desempenho de metodologias de classificação sexual baseada em critérios métricos craniomandibulares em ortopantomografias para Identificação Forense”. Master in Data Science, Escola Superior de Tecnologia e Gestão do Instituto Politécnico de Leiria, Nov 10, URL: <http://hdl.handle.net/10400.8/9532>.

Palmela Pereira C, Filipe P and **Santos R** (Supervisors): Leonor Gaspar Ferreira. “Penfigoide e Esquemas Terapêuticos - Estudo Retrospectivo de 10 anos no Centro Hospitalar Lisboa Norte (HSM)”. Master in Dental Medicine, Faculty of Dental Medicine of the University of Lisbon, Oct 23, URL: <http://hdl.handle.net/10451/61630>.

Palmela Pereira C, Filipe P and **Santos R** (Supervisors): Matilde Cabral Alves Martins. “Pênfigo Vulgar e Esquemas Terapêuticos - Estudo Epidemiológico no Centro Hospitalar Lisboa Norte (HSM) referente ao período 2012-2022”. Master in Dental Medicine, Faculty of Dental Medicine of the University of Lisbon, Oct 25, URL: <http://hdl.handle.net/10451/61414>.

Palmela Pereira C, Salvado F and **Santos R** (Supervisors): Carolina Barroso Flamino. “Dados Epidemiológicos de 10 anos de Lesões Traumáticas Dentárias e Alveolares numa População do Centro Hospitalar Lisboa Norte, Hospital Santa Maria”. Master in Dental Medicine, Faculty of Dental Medicine of the University of Lisbon, Jul 26, URL: <http://hdl.handle.net/10451/60221>.

Palmela Pereira C, Salvado F and **Santos R** (Supervisors): Inês Santos Francisco. “Antibioticoterapia em Consulta de Estomatologia: Estudo Clínico Retrospectivo no Centro Hospitalar Norte (HSM) Referente ao Período 2018-2022”. Master in Dental Medicine, Faculty of Dental Medicine of the University of Lisbon, Nov 22, URL: <http://hdl.handle.net/10451/61639>.

Palmela Pereira C, Salvado F and **Santos R** (Supervisors): Madalena Mourão Tropa. “Caracterização da Prescrição de Anti-inflamatórios numa População do Centro Hospitalar Lisboa Norte, em Consulta do Serviço de Estomatologia do Hospital Santa Maria: Estudo retrospectivo a 5 anos”. Master in Dental Medicine, Faculty of Dental Medicine of the University of Lisbon, Jul 26, URL: <http://hdl.handle.net/10451/61585>.

Palmela Pereira C, Salvado F and **Santos R** (Supervisors): Sofia Alexandra Mileu de Matos. “Enquadramento Médico-legal da Traumatologia da Articulação Temporomandibular no Centro

Hospitalar Lisboa Norte, em consulta no Serviço de Estomatologia do Hospital de Santa Maria: Um estudo retrospectivo a 7 anos". Master in Dental Medicine, Faculty of Dental Medicine of the University of Lisbon, Jul 26, URL: <http://hdl.handle.net/10451/61593>.

Ramos FR and Martinez L (Supervisors): Catarina da Silva Raquel. "Fatores Influenciadores do Green Brand Love nas Redes Sociais". Master in Marketing Management, IPAM-Lisbon, June 21, URL: <http://hdl.handle.net/10400.26/45921>.

Ramos FR and Martinez L (Supervisors): Rafaela Vaz Pinto. "A Influência da Luz no Comportamento do Consumidor em Compras Offline: o Traço de Alta Sensibilidade como Moderador na Atratividade e Qualidade Percebida". Master in Marketing Management, IPAM-Lisbon, June 21, URL: <https://comum.rcaap.pt/handle/10400.26/45929>.

Ramos MR (Supervisor): Paulo Marcos Ribeiro. "The use of spatial analysis in relationship between teacher expectation and performance of 9th grade students in Brazil". Master in Statistics, Mathematics and Computation, Open University, May 17, URL: <https://repositorioaberto.uab.pt/handle/10400.2/14089>.

Ramos SF (Co-supervisor): Inês do Carmo Duarte Carreiras. "A melhoria do FMEA - do projeto à industrialização no setor automóvel". Master in Mechanical Engineering, Industrial Management branch, ISEP, Jul 17.

Ramos SF (Supervisor): Bárbara Osório Botelho. "Definição de uma Estrutura Tarifária para o Produto de Contratos de Assistência". Master in Engineering and Industrial Management, ISEP, Oct 12.

Ramos SF (Supervisor): Gonçalo Faceira Teixeira da Fonseca Cardoso. "Modelos de Previsão Aplicados no Setor Automóvel". Master in Mechanical Engineering and Management branch, ISEP, Oct 16.

Ramos SF (Supervisor): Roberto Domingos Oliveira Gomes. "Previsão de indicadores de gestão". Master in Mathematical Engineering, FCUP, Dec 11, URL: https://sigarra.up.pt/fcup/pt/noticias_geral.ver_noticia?p_nr=110259.

São João R (Supervisor): Ana Margarida Valério Tomás. "Incentivos fiscais ao investimento em Portugal: booster do desempenho?", Master in Accounting and Taxation, School of Management and Technology, Polytechnic Institute of Santarém, Jan 17, URL: <https://repositorio.ipsantarem.pt/handle/10400.15/4304>.

São João R (Supervisor): Ivandro Ismail Carlos Pedreira. "Transmissão de VIH de mãe para

filho na Clínica Céu e Terras na Cidade de Bissau (Guiné-Bissau)". Master in Public Health, National School of Public Health - ENSP, Out., URL: <https://run.unl.pt/handle/10362/162135>.

Silva C and Antunes M (Supervisors): Ana Carreiro. "Gamification applied to cybersecurity training for healthcare professionals - a proof of concept". Master in Health Technologies Management and Evaluation, ESTeSL-IPL, June 19.

Silva C and **Canto e Castro L** (Supervisors): Pedro Ferreira. "Methods for comparing two empirical distributions in large-sized samples". Master in Statistics and Operations Research, Faculty of Sciences – University of Lisbon, Apr 21.

Silva C and Correia I (Supervisors): Ana Palma. "Evaluation of the effectiveness of physiotherapy in improving the functionality of hospitalized patients with COVID-19". Master in Health Technologies Management and Evaluation, ESTeSL-IPL, May 2.

Silva C and Margarida Eiras (Supervisors): Elsa Freitas. "Assessment of patient safety culture in a hospital setting: adaptation of the new version of the Hospital Survey on Patient Safety Culture for the Portuguese culture". Master in Health Technologies Management and Evaluation, ESTeSL-IPL, Jul, URL: <https://repositorio.ipl.pt/handle/10400.21/16675>.

Other Advisory Work

(20)

Aleixo SM: Supervision of the curricular internship of the Degree in Mathematics Applied to Technology and Business, concluded on September 4, by Tiago Fernandes, together with the guidance of Professor Bruno Pereira (DM/ISEL/IPL) and Dr. José Rodrigues and by Engineer Miguel Pina (Recheio/JM). Internship developed at Jerónimo Martins, entitled "Cluster Analysis of Recheio's HORECA channel".

Aleixo SM: Supervision of the curricular internship of the Degree in Mathematics Applied to Technology and Business, concluded on July 25, by Francisco Sedas, together with the guidance of Professor Ricardo Enguiça (DM/ISEL/IPL) and Engineers Paulo Miguel Ferreira and Carlos Mota (ATQP/GALP). Internship developed at GALP, Department of Technical Advisory and Product Quality, entitled "Modeling and Optimization of Laboratory Data for Lubricants in Service".

Carrasquinha E, **Pereira S** and **Marques TA**: BI Supervision of the student Eduardo Oliveira (FCT-CEAUL Research Fellowship) "Convolutional Neural Networks to Automatic Detection and

Classification of Images and Sounds” in a joint work with medical doctors, from CUF Descobertas hospital, concluded on November 27, URL: <http://ceaul.org/bolseiros/>.

Diamantino F: Supervision of the students, Francisca Geraldés, Marcela Ramirez, Maria Folião and Mateus Antunes in the research initiation activity developed at FCUL, entitled “Como se desloca para a FCUL?”, FCUL, July.

Gonçalves MH: co-supervisor of the CU "project" of the Degree in Biomedical Sciences at UAIG by student Beatriz de Sousa Silva, with the theme “Complications in early-term versus full-term newborns”.

Gonçalves MH: co-supervisor of the CU "project" of the Degree in Biomedical Sciences at UAIG by student Beatriz Lopes, with the theme “Mola Hidatiforme”.

Martins R: Supervisor of students participating in the Program: “Sê Investigador por três semanas”, edition 2023, July, URL: <http://ceaul.org/se-investigador-por-tres-semanas-%20edicao-2023/>.

Palmela Pereira C: Supervisor of Curricular internship in Forensic Anthropology from the course Criminal and Forensic Lab TESP (ipluso), from february to july 2023 by Mariana Matos Gracinhas at the Academia das Ciências de Lisboa. The curricular internship was developed under the protocol CEAUL/ACL for the bone collection related to the earthquake 1755.

Palmela Pereira C: Supervisor of Curricular internship in Forensic Anthropology from the course Criminal and Forensic Lab TESP (ipluso), from february to july 2023 by Vera Cristina Cardoso da Conceição dos Santos at the Academia das Ciências de Lisboa. The curricular internship was developed under the protocol CEAUL/ACL for the bone collection related to the earthquake 1755.

Palmela Pereira C: Supervisor of the Research Period Internship of the European PhD by Ilenia Bianchi from the Macerata University in the field Forensic Odontology. The research project was related with IPM Estimation and Pulp, developed in the Faculty of Dental Medicine University of Lisbon (May-August).

Rocha JL: CEAUL - "Programa Sê Investigador por 3 Semanas", 4th Edition, supervision of the short-term internship – “Probabilistic procedures applied to the SIS and SIR epidemic propagation models” of the student Beatriz Coimbra, Master's student in Applied Mathematics for Industry (MMAI - ISEL), 10-28 July (joint supervision with Sónia Carvalho, DM-ISEL).

Rocha JL: CEaul - "Programa Sê Investigador por 3 Semanas", 4th Edition, supervision of the short-term internship – “Rumours, influences and fake news in random networks” of the students B. Coimbra, I. Henriques and J. Pereira, Master's students in Applied Mathematics for Industry (MMAI - ISEL), 10-28 July (joint supervision with Sónia Carvalho, DM-ISEL),
URL: <http://ceaul.org/se-investigador-por-tres-semanas-edicao-2023/>.

Rocha JL: CEaul Research Grant (BI) for Master's Student, "Dynamics in Random Contact Networks: epidemic propagation in SIS and SIR models", Beatriz Batista Coimbra, student on the Master's Degree in Applied Mathematics for Industry (MMAI - ISEL), FCIências.ID - Associação Para a Investigação e Desenvolvimento de Ciências, within the scope of Project UIDP/00006/2020, from March to August 2023 (joint supervision with Sónia Carvalho, ISEL),
URL: <https://ceaul.org/dinamicas-em-redes-de-contacto-aleatorias-propagacao-epidermica-em-modelos-sis-e-sir/>

Rocha JL: Presentation supervision – “Exploring complex interactions in tree-mycorrhizal fungus networks: community analysis and centrality measures”, João Marques, Master's student in Applied Mathematics for Industry (MMAI - ISEL), Lisbon Young Mathematicians Conference 2023, LYMC 2023, Open University, Lisbon, Portugal, 14-15,
URL: <https://novamath.fct.unl.pt/lymc-2023-lisbon-young-mathematicians-conference/>.

Rocha JL: Supervision of the business internship - "Movement in the City of Lisbon based on Mobile Phone Data", by Vera Jacinto, LMATE - ISEL student, curricular internship developed at CML - Lisbon City Council, (joint supervision with Sónia Carvalho, ISEL, Ana F. Rocha, CML, António Costa, CML), April.

Rufino MM: BII supervision of the master student grant (IPMA-2022-015-BII) holder João Samarrão, from the master in Analysis and Engineering of Big Data - Nova School of Science and Technology. Work on the “Applications of ML algorithms to the quantification of the fishing effort in small scale fisheries”. Project “PESCAPANHA: Contributo para a Gestão Sustentada da Pequena Pesca Costeira e Apanha”, MAR2020, Apr 1 2022 – June 30 2023.

Rufino MM: Supervision of first degree in “Ingénieur agronome, M1 Spécialisation halieutique et aquacole” internship of Lucie Chauvel, from the “Institut Agro Rennes-Angers”. The project lasted 5 months. Title: “What are the best indicators to inform managers about fishing effort intensity in small-scale fisheries?”, Sept 1 2022 - Jan 30 2023.

São João R: Supervisor of six curricular internships for the Degree in Business Management at the School of Management and Technology of the Polytechnic Institute of Santarém. Students:

Xavier Ramalho (Sugal Group); Miguel Antão (Pavi Logistics); Diana Rebelo (F5IT - Information Technology) Sérgio Maia (HAVI Logistics), Ana Pombinho (Mário Moura, Accounting).

Sousa L: BI supervisor, student Carlota Teles (FCT Project PTDC/OCE-ETA/1785/2020 Research Fellowship, Sept 15 2022 – June 14 2023). " Microbial Diversity and Discrimination of Queijo de Azeitão and Queijo de Nisa PDO Cheeses Based on Metagenomic Data", URL: <https://ceaul.org/microbial-diversity-and-discrimination-of-queijo-de-azeitao-and-queijo-de-nisa-pdo-cheeses-based-on-metagenomic-data/>

Sousa L: BI supervisor, student Nuno Domingues (FCT-CEAUL Research Fellowship, Mar 1 – Jul 31). " Application of Statistical Methodologies as a Contribute to Define Disease Control Strategies for a Sustainable Viticulture, URL: <https://ceaul.org/application-of-statistical-methodologies-as-a-contribute-to-define-disease-control-strategies-for-a-sustainable-viticulture/>

PROJECTS RUNNING IN 2023

Financed Projects

(19)

Aleixo SM and **Brás-Geraldes C.** PREMIO - *Predictive Models of COVID-19 Outcomes for Higher Risk Patients Towards a Precision Medicine*. Financed By: FCT. Participating institutions: ISEL, Centro Hospitalar Universitário Lisboa Central, Instituto Superior Técnico, Instituto Português do Sangue e da Transplantação. Project Ref: DSAIPA/DS/0117/2020. Principal investigator: Fonseca L. URL: https://former.fct.pt/apoios/projectos/consulta/vglobal_projecto?idProjecto=166399&idElemConcurso=14912

Antunes M and **Silva GL.** CINDERELLA - *Comparing Decision on Match of Expectations and Aesthetics using a Conventional Versus a Cloud Based Healthcare Platformbased Approach in Breast Cancer Patients Proposed for Locoregional Treatment: A Prospective Randomized Trial*. Financed By: HORIZON-RIA. Participating institutions: Champalimaud Foundation, Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência, CANKADO, Universitätsklinikum Heidelberg, Ospedale San Raffaele SRL, FCiencias.ID, Università Commerciale Luigi Bocconi, Sheba Medical Center, Gdanski Uniwersytet Medyczny. Project

Ref: 101057389. Principal investigator: Cardoso MJ - Champalimaud Clinical Centre.

URL: <https://cinderellaproject.eu/>.

Carrasquinha E. MONET - *Multi-omic networks in gliomas*. Financed By: FCT. Participating institutions: NOVA.ID.FCT, Instituto de Engenharia de Sistemas e Computadores, Investigação e Desenvolvimento em Lisboa, Instituto de Telecomunicações, Universidade do Minho. Project Ref: PTDC/CCI-BIO/4180/2020. Principal investigator: Lopes MB - NOVA.ID.FCT.

de Zea Bermudez P. MEDCEX - *Compound Extremes in Mediterranean Temperature, Wind and Wildfires*. Financed By: FCIencias.ID. Participating institutions: FCIencias.ID. Project Ref: 100SID8106. Principal investigator: **de Zea Bermudez P** - FCIências.ID.

Gomes MI. HiTEc - *Text, Functional and other High-dimensional Data in Econometrics: New models, Methods, Applications*. Financed By: European Cooperation in Science and Technology (COST). Participating institutions: FCIências.ID, COST and many other institutions from European countries. Project Ref: COST ACTION CA21163. Principal investigator: Colubi A - Frederick University, Nicosia, Cyprus. URL: <http://www.hitecaction.org/>.

Gonçalves L, Gonçalves MH and Silva GL. LONG-DATA - *Longitudinal data in (under)nutrition*. Financed By: IHMT NOVA. Participating institutions: CEaul, IHMT NOVA and CISA-Angola. Project Ref: LONG - DATA. Principal investigator: **Gonçalves L** - CEaul and IHMT NOVA.

Gonçalves L (member - COST Action HARMONY). HARMONY - *Novel tools for test evaluation and disease prevalence estimation*. Financed by: European Cooperation in Science & Technology (COST). Project Ref: HARMONY CA18208. Principal investigator: Kostoulas P, University of Thessaly, Greece. URL: <https://harmony-net.eu/>.

Ramos FR. BIBCOLOR. Financed By: Universidade Europeia. Participating institutions: Europeia ID. Principal investigator: Martinez LM - IPAM Lisboa.

Martins R. MEGAPREDATOR - *A giant on the water: from predation pressure to population control of the European catfish (Silurus glanis)*. Financed By: FCT. Participating institutions: FCIências.ID. Project Ref: PTDC/ASP-PES/4181/2021. Principal investigator: Ribeiro F, FCIências.ID. URL: <https://fciencias-id.pt/node/52>.

Ramos MR. ASPRisk - *Quantitative Microbial Risk Assessment for Aspergillus Fumigatus Exposure in the Poultry Industry*. Financed By: Projetos de Investigação, Desenvolvimento, Inovação e Criação Artística (IDI&CA) do Instituto Politécnico de Lisboa. Participating institutions:

H&TRC, ESTeSL, IPL, Universidade Aberta, FCIências.ID. Principal investigator: Carolino E - H&TRC, ESTeSL, IPL.

Rufino MM. MONTEREAL - *Real-time monitoring of bivalve dredge fisheries*. Financed By: European Maritime and Fisheries Fund (EMFF). Participating institutions: IPMA. Principal investigator: Gaspar M - IPMA.

URL: <https://www.ipma.pt/pt/investigacao/areas/pecas/detail.jsp?f=MONTEREAL.html>.

Santos R. EMBALAGEM DO FUTURO + *Ecológica + Digital + INCLUSIVA* - PPS19 – *Human Resources Training and Upskilling*. Financed By: PRR - Plano de Recuperação e Resiliência - Projetos Mobilizadores de Agendas de Inovação. Participating institution: Instituto Politécnico de Leiria. Project Ref: 02-C05-i01.02- 2022.PC644931699-00000042. Principal investigator: Coelho L – Instituto Politécnico de Leiria.

Santos R. - *“Link Me Up - 1000 ideias? - Sistema de Apoio à co-criação de inovação, criatividade e empreendedorismo”*. Financed By: Portugal2020. Participating institution: Instituto Politécnico de Leiria. Project Ref: POCI-03-33B5-FSE-072070. Principal investigator: Rodrigues S – Instituto Politécnico de Leiria.

Silva C. CyHeGame - *Gamification Applied to Cybersecurity Education for Health Professionals*. Financed By: IDICA-IPL. Participating institutions: ESTeSL-HTRC. Project Ref: IPL/2022/HeCyGame_ESTeSL. Principal investigator: **Silva C** - ESTeSL-HTRC.

Silva C. MetAllAMD - *Differential DNA METHylation across ALL stages of Age-related Macular Degeneration: New therapeutic approaches*. Financed By: IDICA-IPL. Participating institutions: ESTeSL-HTRC. Project Ref: IPL/2022/MetAllAMD_ESTeSL. Principal investigator: Camacho P - ESTeSL-HTRC.

Silva C. MOOCS4all - *MOOC de Estatística e de Matemática para Todos*. Financed By: IDICA-IPL. Participating institutions: ISCAL, ESTeSL, ISEL, ESE. Project Ref: MOOCS4all_ISCAL. Principal investigator: **Martinho C** – ISCAL-IPL.

Silva C. ParasitesSCD - *Detecting gut microbial pathogens in Angolan children with sickle cell disease*. Financed By: IDICA-IPL. Participating institutions: ESTeSL, HTRC. Project Ref: IPL/2022/ParasitesSCD_ESTeSL. Principal investigator: Brito M - ESTeSL.

Silva GL. HEP - *Modeling Seizures in Patients with Focal Epilepsy*. Financed By: (American) National Institutes of Health. Participating institutions: University of Colorado Denver. Project Ref: 1R01NS133040-01. Principal investigator: Juarez-Colunga E - Colorado School of Public Health. URL: <https://reporter.nih.gov/search/urjc9i2T00Sh-DjVXsO6Fg/project-details/10716792>.

Sousa L and Pedro S. EMOTION - *authEntic cheesoMics: from big data, through labOratory, towards the fuTure of protected deslgnation of Origin*. Financed By: FCT. Participating institutions: FCIências.ID, Instituto de Biologia Experimental e Tecnológica (IBET), Instituto Superior de Agronomia (ISA/ULisboa). Project Ref: PTDC/OCE-ETA/1785/2020. Principal investigator: Semedo T - FMV-ULisboa.
URL: https://www.fct.pt/apoios/projectos/consulta/vglobal_projecto.phtml.en?idProjecto=159741&idElemConcurso=14550.

Other Projects

(3)

São João R. *Aconselhamento Contraceptivo ao Longo do Ciclo Vida Reprodutiva*. Participating institutions: CIDNUR - Escola Superior de Enfermagem de Lisboa. Principal investigator: Presado MH - Escola Superior de Enfermagem de Lisboa. URL: <https://www.esel.pt/node/8010>.

São João R. *Burnout Nos Profissionais Do Hospital Distrital De Santarém*. Participating institutions: Santarém District Hospital (HDS), the Escola Superior de Saúde and the Escola Superior de Gestão e Tecnologia de Santarém. Principal investigator: n/a. Team: São João R(ESGT-IPSantarém), Coelho T (ESSS-IPSantarém) and Ferreira C (HDS).

São João R. *Caracterização demográfica de doentes com carcinoma pavimento celular oral diagnosticado em hospital terciário português*. Participating institutions: Centro Hospitalar Universitário Lisba Norte, EPE; Hospital de Santa Maria; Hospital Pulido Valente, University Clinic of Stomatology of the Faculty of Medicine of the University of Lisbon. Principal investigator: Coutinho JC - Clínica Universitária de Estomatologia, Faculdade de Medicina, Universidade de Lisboa.

ORGANIZATION OF CONFERENCES, SEMINARS AND INVITED SESSIONS

CEAUL Seminars

(22)

Martins R: Responsible for the organization of the thematic seminars at CEAUL,

URL: <http://ceaul.org/eventos/seminarios/>.

Title	Speaker/Institution	Local	Date
Multi-Objective Optimal Split-Plot Experiments For The Pharmaceutical Industry	Kalliopi Mylona, King's College London, UK	ZOOM – 16:00	13-DEZ-2023
Extreme Risk Assessment And Expectiles	Gilles Stupfler, University of Angers, France	ZOOM – 14:00	13-DEZ-2023
Reduction Techniques For Survival Analysis	Andreas Bender, Department of Statistics at LMU Munich and Senior consultant at the Statistical Consulting Unit (StaBLab)	ZOOM – 14:30	07-DEZ-2023
Modelos Preditivos Da Obesidade Aos 13 Anos – O Problema Da Modelação De Uma Resposta Seccional Por Variáveis Longitudinais	Rita Gaio, Faculty of Sciences of University of Oporto	ZOOM – 16:00	06-DEZ-2023
Bayesian Prediction Of Football Outcomes	Rui Martins, CEAUL and Department of Statistics and Operations Research, University of Lisbon	Ciências, C6, 4 th floor, room 6.4.27	06-DEZ-2023
Feels Right, But It's So Wrong: The Impact Of Empirical Data Analysis On Public Health Practical Intervention	Maíra Aguiar, Basque Center for Applied Mathematics (BCAM)	ZOOM – 16:00	22-NOV-2023
Representation Of Context-Specific Graphical Causal Models With Observational And Interventional Data	Eliana Duarte, Department of Mathematics, University of Oporto	ZOOM – 14:00	22-NOV-2023
Coherent Cause-Specific Mortality Forecasting Via Constrained Penalized Regression Models	Carlo Giovanni Camarda, National Institute of Demographic Studies (INED), France	ZOOM – 14:30	25-OUT-2023
What on Earth is Bayesian statistics and why do I keep hearing about it?	Rosina Savisaar, Mondego Science	Ciências, ULisboa C6,	04-OUT-2023

		room 6.4.30 & ZOOM – 14:30	
A two-stage approach for Bayesian joint models: reducing complexity while maintaining accuracy	Danilo Alvares, Mondego Science, University of Cambridge (UK)	Ciências, ULisboa C6, room 6.4.30 & ZOOM – 14:30	22-SET-2023
Statistical Boosting, Advanced Statistical Modeling And Clinical Reality	Andreas Mayr, Department for Medical Biometry, Informatics, and Epidemiology, University of Bonn, Germany	ZOOM – 14:00	05-JUL-2023
Data Scientist Com R	Ricardo São João	Cisco Webex – 19:00	09-JUN-2023
Detecting A (Late) Changepoint In The Preferential Attachment Model	Rui Pires da Silva Castro, Eindhoven University of Technology, The Netherlands	IST, Ed. Matemática, Sala P3.10 & ZOOM – 14:30	03-MAI-2023
Regression Model For Zero-Modified Count Data	Katiane S. Conceição, University of São Paulo, Brazil	ZOOM – 14:00	26-ABR-2023
New Graphical Displays For Classification	Peter Rousseeuw, KU Leuven, Belgium	IST, Ed. Matemática, Sala P3.10 & ZOOM – 14:30	19-ABR-2023
Bayesian Spatial Modeling Of Misaligned Data Using INLA And SPDE	Paula Moraga, KAUST, Saudi Arabia	IST, Ed. Matemática, Sala P3.10 & ZOOM – 15:00	23-MAR-2023
Perspectives On The Bayes Factor	Jorge Tendeiro, Hiroshima University, Japan	ZOOM – 12:00	01-MAR-2023
Latent Non-Gaussian Models And Efficient Estimation Using Variational Bayes	Rafael Medeiros Cabral, KAUST, Saudi Arabia	ZOOM – 14:30	22-FEV-2023
Extreme Value Statistics Born Out Of Domains Of Attraction	Cláudia Neves, King's College London, UK	ZOOM – 14:30	08-FEV-2023
Meta-análise em Saúde	João Paulo Martins, Escola Superior de Saúde, P.Porto, CEAUL, Faculty of Sciences, University of Lisbon	ZOOM – 14:00	18-JAN-2023
Machine Learning Beyond The Data Range: Extreme Quantile Regression	Sebastian Engelke, Research Center for Statistics, University of Geneva	ZOOM – 17:00	12-JAN-2023

Distilling Importance Sampling For Likelihood-Free Inference	Dennis Prangle, University of Bristol, England	ZOOM – 17:00	11-JAN-2023
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Other events organized directly by members of CEAUL

(8)

Aleixo SM: Organizer of the MATE 2023 workshop, an event that brings together all partner companies of the Degree in Mathematics Applied to Technology and Enterprise that I coordinate at ISEL. Held at ISEL on May 11-12.

Cordeiro C: Part of the organization: "International Day of Women in Statistics and Data Science (IDWSDS)", online, on Oct 10. URL: <https://www.idwsds.org/>.

Oliveira TA: "VI Escola de Estudos Avançados: Pesquisa em cultura, história e Educação", UFPA-Universidade Federal do Pará, Belém do Pará, Brasil, Feb 13-17.
URL: <https://www.facebook.com/photo?fbid=608571514609761&set=pcb.608571561276423>.

Palmela Pereira C: Member of scientific committee for the "Symposium on Dental Anthropology research in Portugal, USA and Croatia"; which took place at Academia de Ciências de Lisboa, Mar 22. Under the Protocol of research ACL/CEAUL. URL: <https://www.acad-ciencias.pt/events/dental-anthropology-research-in-portugal-usa-and-croatia/>.

Rocha JL: Coordinator of the organization of the ISEL Mathematics Department Seminars: "DM Seminars - Mathematica Seminaria". URL: <https://dmseminars.isel.pt/>.

Rocha JL: Coordinator of the organization of the ISEL Mathematics Department Talks: "DM Talks - Mundus Mathematica". URL: <https://admtalks.isel.pt/>.

Rufino MM: Coordination (along with Alexandra Silva) of the cycle of talks from DIV-RP/IPMA, every 15 days in hybrid format. 22 seminars organized during 2023.

Silva GL: Organizer of the short course "Spatial Data Science using R" by Paula Moraga (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), Faculty of Science of the University of Lisbon, Mar 22-24. URL: <https://spatialdatascience.weebly.com/>.

Invited sessions organized directly by CEAUL

(15)

Carrasquinha E: Organization of an Invited session in the 2023 IMS International Conference on Statistics and Data Science (ICSDS), "Omics Data Analysis". This session featured 4 speakers, who presented the work they have been developing in the area of omics data, particularly in oncological diseases, 2023 IMS International Conference on Statistics and Data Science (ICSDS), Lisbon, Portugal, Dec 18-21. URL: <https://sites.google.com/view/icsds2023>.

Cordeiro C: Organized Session: "Exploring the Contribution of Time Series Analysis to Sustainable Development Goals", 16th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023), Berlin, Germany, Dec 16-18, URL: <https://www.cmstatistics.org/CMStatistics2023/index.php>.

Cordeiro C: Organized Session "SPE-Three statistical strategies to deal with health data", JOCLAD 2023 (XXX Classification and Data Analysis Conferences), Polytechnic Institute of Viana do Castelo, Apr 20-22, URL: <https://clad.pt/joclad-2023-xxx-jornadas-de-classificacao-e-analise-de-dados/>.

Gomes MI: "Statistics of Extremes & Applications: Remembering the 40 Years of Vimeiro". Invited Session to the Institute of Mathematical Statistics (IMS) II International Conference on Statistics and Data Science (ICSDS 2023), Lisbon, Portugal, Dec 18-21. Invited Speakers: Miguel de Carvalho, Isabel Fraga Alves, Ana Cristina Freitas and Holger Rootzen. URL: <https://sites.google.com/view/icsds2023>.

Oliveira A: Organizer of Invited Session: "Big Data in Environmental Risk Analysis" in 9th Conference of Economics of Natural Resources and the Environment, Thessaloniki, Greece, Dec 8-9. The session had the participation of 4 speakers. URL: <http://envecon.econ.uth.gr/main/eng/index.php/main>.

Oliveira TA: Organizer of the Invited ISI-CRA Session: "Risk Analysis and Data Science", Institute of Mathematical Statistics (IMS) II International Conference on Statistics and Data Science, Lisbon - Portugal, Dec 18-21. Invited speakers: Marek Kimmel (Rice University, USA), Maria Ivette Gomes (FCUL, Portugal), Manuela Neves (ISA, Portugal), Teresa Oliveira (Open Univ., Portugal), 2023 IMS International Conference on Statistics and Data Science (ICSDS), Lisbon, Portugal, Dec 18-21. URL: <https://sites.google.com/view/icsds2023/>.

Oliveira TA: Organizer of the Invited Session 8: "Data Science & Artificial Intelligence: Improving

Health Equity and Urban Environments". ENVECON2023. Invited speakers: Teresa A. Oliveira, Gleice Leidenfrost, J.A. Pereira, Teresa Oliveira. 9th Conference Economics of Natural Resources & the Environment, Online, Dec 8-9.

URL: http://envecon.econ.uth.gr/main/eng/images/9th_conference/ENVECON_9_PROGRAM.pdf

Palmela Pereira C: Chair of the Application n. ° 4590 for the Science and Technology Week 2023. Palmela Pereira C, Santos R, Nushi V, Rodrigues A, Augusto D, Telles Antunes M, Pais S, Cardoso JL. "Coleção Osteológica da Academia das Ciências de Lisboa relacionada com o terramoto de 1755". Institutions: ACL/CEAUL. Type of event: Colloquium with plenary talks, visit tour to lab and museum. 4 hours program for 110 participants, Nov 23.

URL: https://www.cienciaviva.pt/semanact/2023/eventos.php?acao=showactivities&id_activity=4590#evento.

Palmela Pereira C: Chair of the poster scientific session and of the scientific session "Forensic Odontology", at the 32nd Congress of the Order of Dentists (OMD), Oporto, Nov 9-11.

URL: <https://www.omd.pt/congresso/2023/programa>.

Palmela Pereira C: Chair of the scientific session Oral presentations: "Education in Forensic Odontology" at the Triennial Congress of the International Organization for Forensic Odontostomatology (IOFOS), Dubrovnik, Croatia, Sept 6-8. URL:

https://iofos2023.com/assets/files/IOFOS_abstracts.pdf.

Palmela Pereira C: Chair of the scientific session "Young Investigators and Forensic Odontology Research" at the IOFOS e-Symposium, Online, Dec 2. URL: <https://iofos.eu/coming-events/>.

Pereira S: Chair of the Session "Spatial Statistics" on the 2023 IMS International Conference on Statistics and Data Science (ICSDS), Lisbon, Portugal. Dec 18-21.

URL: <https://sites.google.com/view/icsds2023>.

Silva GL and **Sousa L**: Organizers of Invited session "New Developments in Biostatistics and Data Science", Institute of Mathematical Statistics (IMS) II International Conference on Statistics and Data Science, Lisbon, Portugal, Dec 18-21. URL: <https://sites.google.com/view/icsds2023/>.

Silva GL: Organizer of Invited session "In memoriam - Carlos Daniel Paulino" by Brazilian Statistics Association, XVIII School of Regression Models, Belém, Brazil, Nov 21-24.

URL: https://www.even3.com.br/emr2023?even3_orig=events_eventlist.

Silva GL: Organizer of Invited session "In memoriam - Carlos Daniel Paulino" by Portuguese Statistics Society, XXVI Congress of the Portuguese Statistical Society, Guimarães, Portugal, Oct

11-14. URL: <https://w3.math.uminho.pt/SPE2023/>.

Scientific and Organizing Committees

(22)

Cordeiro C and **Sousa L**: Scientific Committee Member and Reviewer of the Congress "XXVI Congress of the Portuguese Statistical Society (SPE 2023)", Guimarães, Portugal, Oct 11-14.
URL: <https://w3.math.uminho.pt/SPE2023/>.

Gomes MI and **Oliveira A**: Participation in Scientific Committee of the "20th Conference of the Applied Stochastic Models and Data Analysis International Society - ASMDA2023" and "DEMOGRAPHICS2023 WORKSHOP", Crete, Greece, June 6-9.
URL: <http://www.asmda.es/asmda2023.html>.

Gomes MI, **Carrasquinha E**, **Oliveira TA**, (co-chairs) **Pereira S**, **Silva GL**, **Sousa L** and **Marques TA** (organizers): Members of Local Arrangements Committee and International Program Committee of the Institute of Mathematical Statistics (IMS) II International Conference on Statistics and Data Science (ICS DS 2023), Lisbon, Portugal, Dec 18-21.
URL: <https://sites.google.com/view/icsds2023/committee>.

Gomes MI: Member of the Scientific Committee of the "Conferência Nacional da SPMet — Medir para apoiar o sistema alimentar mundial", INIAV, Oeiras, Portugal, Nov 16-17.
URL: <http://www.spmet.pt/conselhocientifico.html>.

Oliveira A: Member of Scientific Committee of "9th Conference of Economics of Natural Resources and the Environment", Dec 8-9, Thessaloniki, Greece.
URL: <http://envecon.econ.uth.gr/main/eng/index.php/9th-envecon/conference-committees>.

Oliveira A: Member of the Program Committee of the "Track: Knowledge Discovery and Business Intelligence", 2nd EPIA Conference on Artificial Intelligence, Faial, Azores, Portugal, Sept 5-8. URL: <https://epia2023.inesctec.pt/>.

Oliveira A: Participation in Scientific committee of the "35th Panhellenic and 1st International Statistics Conference", Athens, Greece, May 25-28.

URL: <https://gsi-conference.uniwa.gr/index.php>.

Oliveira A: Participation in Scientific committee of the “LII International Biometrical Colloquium”, Szamotuly, Poland, Sept 10-13. URL: <https://kzmi.up.lublin.pl/cb52/>.

Oliveira TA and **Ramos MR** (Members of the Scientific Committee): “Jornadas da Matemática, Estatística e Aplicações da Universidade Aberta”. The event took place in the Multipurpose Room of the Learning Local Center of Open University, Montijo, Portugal, Oct 28.

URL: <https://eventos.uab.pt/jornadas-mea2023/organizacao/>.

Oliveira TA: Member of the Organizing Committee of “ICNAAM2023 – 21st International Conference of Numerical Analysis and Applied Mathematics”, Hybrid, Heraklion, Crete, Greece, Sept 11-17. URL: http://history.icnaam.org/icnaam_2023/icnaam.org/index.html.

Oliveira TA: Member of the Technical Program Committee of the “3rd International Conference on Statistics, Applied Mathematics and Computing Science (CSAMCS 2023)”, Nanjing, China, Nov 10-12. URL: <http://csamcs.org/>.

Palmela Pereira C: Member of the Organizing Committee and of the Scientific Committee of the “IOFOS e-Symposium”, Online, Dec 2. URL: <https://iofos.eu/coming-events/>.

Palmela Pereira C: Scientific Committee Member at the “Triennial Congress of the International Organization for Forensic Odonto-Stomatology (IOFOS)”, Dubrovnik, Croatia, Sept 6-8.

URL: https://iofos2023.com/assets/files/IOFOS_abstracts.pdf.

Palmela Pereira C: Scientific Committee Member of the “32^o Congresso da Ordem dos Médicos Dentistas (OMD)”, Oporto, Nov 9-11. URL: <https://www.omb.pt/congresso/2023/programa>.

Ramos MR: Member of the Organizing Committee of the “Lisbon Young Mathematicians Conference 2023”, conference directed for Postdocs, PhD and Master students in Mathematics and affine areas of Lisbon Universities, Open University, Apr 14-15.

URL: <https://sites.uab.pt/lymc2023/>.

Rufino MM: Chair of the ICES hybrid “Workshop on Geo-Spatial Data for Small-Scale Fisheries WKSSGEO2”. Coordination: Rufino MM, Egekvist J (DTU-Aqua) and Mendo T (St. Andrews), Faro, Portugal, Mar 13-16.

URL: <https://www.ices.dk/community/groups/Pages/WKSSFGEO2.aspx>.

Santos R: Member of the Organizing Committee of the “4th Iberian Meeting on the History of

Mathematics”, event jointly organized by the Real Sociedad Matemática Española (RSME) and the Sociedade Portuguesa de Matemática (SPM), through its National Seminar on the History of Mathematics, Leiria, Portugal, June 22-24. URL: <https://sites.ipleiria.pt/4eihm/>.

Santos R: Member of the Program Committee of the “15th International Conference on Knowledge Discovery and Information Retrieval (KDIR/IC3K 2023)”, Rome, Italy, Nov 13-15. URL: <https://kdir.scitevents.org/?y=2023>.

Silva C and **Sousa L:** Scientific Committee “CAS2023- Workshop Computational and Applied Statistics 2023”, Athens, Greece, Jul 3-6. URL: <https://cas2023.webnode.page/>.

Silva C: Scientific Committee “ARTIIS – International Conference on Advanced Research in Technologies, Information, Innovation and Sustainability”, Santiago de Chile, Chile, Oct. 21-23. URL: <https://www.artiis.org/committees>

Silva C: Scientific Committee “HCist2023 - International Conference on Health and Social Care Information Systems and Technologies”, Oporto, Portugal, Nov 8-10. URL: <https://hcist.scika.org/>.

Silva GL: Member of the Scientific Committee, “XVIII School of Regression Models”, Belém, Brazil, Nov 21-24. URL: https://www.even3.com.br/emr2023?even3_orig=events_eventlist.

ADVANCED TRAINING

(18)

Bashir S: “Workshop R in Real Life”. Training course for the students participating in “Programa Sê Investigador por 3 Semanas”. 15h30m, Jul 11-13. URL: <https://ceaul.org/se-investigador-por-tres-semanas-edicao-2023/>.

Neves M: Invited seminar in the scope of the course “Metodologias Estatísticas no apoio à Investigação”, Unilúrio Business School (UBS), Nampula, Mozambique, Jan 27.

Neves M: The postgraduate course in "Applied Statistics using the R software" was created as part of an initiative by the Calouste Gulbenkian Foundation, entitled “Apoio a uma educação de melhor qualidade em Matemática nos PALOP” (“Support to a better quality education in Mathematics in the PALOP”). This program, financed by the Calouste Gulbenkian Foundation, was established between the Faculdade de Economia da Universidade Lúrio (Unilúrio Business School - UBS) e o Instituto Superior de Agronomia (ISA) da Universidade de Lisboa. Neves M. was responsible for the collaboration component at ISA and also taught a module entitled "Inferência Estatística; Técnicas de Amostragem; Regressão Linear e Modelos Lineares Generalizados", during five weeks in

January and February.

Oliveira A: Short course: "Introduction to the R language: Fundamentals and programming (Part I)" (8 hours), VI Escola de Estudos Avançados Research in Culture, History and Education, Federal University of Pará, Belém, Brazil, (online), Feb13-17.

Palmela Pereira C: "7th Course on Disaster Victim Identification (DVI) Education. To: Forensic experts" 30 hours. Organized by Portuguese National Institute of Legal Medicine and Forensic Sciences, Coimbra, Mar 1-4.

Palmela Pereira C: "8th Course on Disaster Victim Identification (DVI) Education. To: Forensic experts", 30 hours. Organized by Portuguese National Institute of Legal Medicine and Forensic Sciences, Coimbra, Oct 16-19.

Palmela Pereira C: Workshop 1: "Human Identification by Comparative Dental Analysis in Disaster Victim Identification. To: Dental Doctors", (4 hours). Organized by School of Dental Medicine University of Zagreb and Croatian Association of Forensic Stomatologists at the Triennial Congress of the International Organization for Forensic Odonto-Stomatology (IOFOS), Dubrovnik, Croatia, Sept 6-8. URL: https://iofos2023.com/assets/files/IOFOS_abstracts.pdf.

Pereira S and **Marques TA**: "Data Scientist with R". (16 hours). Course organized by Gades Solutions and CEAUL. Online. Local: Online, Cisco Webex. Institutions: CEAUL, Gades Solutions Jan 30 – Feb 22. URL: <https://ceaul.org/data-scientist-com-r-6/>.

Pereira S: "R Workshop". (4 hours). Workshop organized by NEMMA - Núcleo de Estudantes de Matemática e de Matemática Aplicada da Faculdade de Ciências de Lisboa and CEAUL. FCUL, Lisbon, Nov 28 and 30. URL: <https://ceaul.org/workshop-de-r/>.

Ramos MR: "Data Science for health – Concept and methods for learning on temporal health-related data" (3 hours). Lecturer prof. Myra Spiliopoulou. Otto-von-Guericke-Universit Magdeburg, Germany. Minicourse in XX Classification and Data Analysis Conferences - JOCLAD 2023. ESTG, IPVC, Viana do Castelo, Apr 20-22. URL: <https://sites.google.com/view/joclad/programa-cient%C3%ADfico/mini-curso>.

Rufino MM: Lecturer at the International Master of Science in Marine Biological Resources (IMBRSea, Erasmus Mundus Programme) joint summer school at Tjärnö Marine Station Laboratory, University of Gothenbourg. Leg 3: Aug 13-26. (80 h, 6 ECTS).

Rufino MM: Lecturer responsible for the course "Experimental Design and Advanced Ecological Data Analysis" in the Marine Biology and Conservation Master program at ISPA - Instituto Universitário de Psicologia Aplicada. Sept 13 - Dec (36h, 6 ECTS).

São João R: "Assessing the impact of art on the learning process and social inclusion" at Università Degli Studi Suor Orsola Benincasa - 2nd Erasmus+ International Week - Naples, 9th May. In this one-hour workshop, the impact of art on the learning and social inclusion was measured using various Likert-type scales (such as the Rosenberg Self-Esteem Scale). Statistical methodology was also presented for Likert scales in order to determine the effect of artistic workshops, May 9-12. URL: https://www.unisob.na.it/eventi/pdf/20230509_12.pdf.

São João R: Guest speaker at the Seventh "Encontro Nacional de Estudantes de Matemática (ENEMath 2023)" where he gave a 4-hour workshop entitled "Analysing health data using SPSS". The aim of this workshop was to demonstrate the use of IBM SPSS Statistics in analysing health data, using a few examples, bearing in mind the use of appropriate statistical methodology to support decision-making. The IBM SPSS Statistics software is characterised by user-friendly and intuitive menus, leading to goal-oriented data analysis, Apr 1-4. URL: <https://www.fc.up.pt/enemath/workshop4.php>.

São João R: Trainer of the course "Statistics and Data Analysis in Health with SPSS" 32 hours, in partnership with CEaul and GADES Solutions. The training was delivered using the Cisco Webex platform (online), May 16 - Jun. 7. URL: <https://ceaul.org/estatistica-e-analise-de-dados-em-saude-com-spss-5/>.

São João R: Trainer of the course "Statistics and Data Analysis with R", 16 hours, in partnership with CEaul and GADES Solutions. The training was delivered using the Cisco Webex platform (online), Mar 26 – Apr 10. URL: <https://ceaul.org/estatistica-e-analise-de-dados-com-r-3/>.

São João R: Trainer of the course "Statistics and Data Analysis with R", 18 hours, in partnership with CEaul and GADES Solutions. The training was delivered using the Cisco Webex platform (online), Oct 31 – Nov 16. URL: <https://ceaul.org/estatistica-e-analise-de-dados-com-r-2/>.

Silva GL: Short course "Introduction to Bayesian Inference", Department of Mathematics - Universidad Nacional del Sur, Bahia Blanca - Argentina, Jul 10-14. URL: <https://www.matematica.uns.edu.ar/default.php>.

PRIZES AND AWARDS

(5)

Gonçalves L: Dias JV, Varandas L, **Gonçalves L** and Kagina BM. Impacto da tuberculose em idade pediátrica na região africana: revisão sistemática e meta-análise. 6º Congresso Nacional de Medicina Tropical, Instituto de Higiene e Medicina Tropical, UNova, Lisbon, Apr 20-21. Best Oral Communication Prize. URL: <https://6cnmt.admeus.pt/?page=43>.

Malato J: "Pfizer Award of Clinical Research", distinguish the best clinical research work, prepared by national or foreign researchers, fully or partially carried out in Portuguese institutions and sent specifically for this purpose to the SCMED Secretariat, Best Clinical Research Work. URL: <https://www.pfizer.pt/a-nossa-ciencia/nossa-ciencia-apoio-a-investigacao/premios-pfizer>.

Martins JP: Paper selected for the Cover Story of the Volume 11, Issue 8 of the Vaccines Journal. URL: <https://www.mdpi.com/2076-393X/11/8>.

Palmela Pereira C: Rodrigues A, Nushi V, **Santos R**, Salvado F and **Palmela Pereira C** (2023). "Dental Age Assessment by Portuguese Scoring Systems tables", Triennial Congress of the International Organization for Forensic Odonto-Stomatology (IOFOS), Dubrovnik, Croatia, Sept 6-8. Best Student Oral Presentation. URL: https://iofos2023.com/assets/files/IOFOS_abstracts.pdf.

Sousa L: Watanabe L, ..., Nonino CB. GWAS identifies genetic variants indicating a role of impaired thyroid metabolism in selenium deficiency. 45th ESPEN Congress on Clinical Nutrition & Metabolism. Centre de Congrès de Lyon, Lyon, France. Sept 11-14. Best Poster Award. URL: <https://espencongress.com/2023/>.

CONSULTANCY

(3)

Antunes M: Statistical analysis of the data from the e_LIPID study. Consultancy to Novartis Pharma under contract between Fciências.ID (on behalf of the CEAUL) and Novartis Pharma.

Martins R: Evaluator of research projects submitted for funding to the Science Fund of the Republic of Serbia.

São João R: Through the GADES/IPSantarem protocol, it carried out consultancy and statistical

analysis for the following projects: i) GENESIA – Evaluation of Thrombin Generation Assay as a tool for thrombotic risk stratification and anticoagulant therapy efficiency assessment in COVID-19 patients; ii) Evaluation of fibrin monomers (FM) and fibrin/fibrinogen degradation products (FDP), in patients with COVID-19, as a tool for risk stratification of coagulopathy.

OTHER

(28)

Aleixo SM: Participation in the 174th European Study Group with Industry, between 3 and 7 July 2023 in Felgueiras, having been involved in solving one of the company's problems, the Tinamar - Tinturaria Textil, SA, entitled "Patterns of non-conformities and client's complaints in textile dyeing".

Figueiredo FO: Auditor of the Mathematics National Examinations, for IAVE - Instituto de Avaliação Educativa, I.P. entidade parceira do Ministério da Educação.

URL: <http://www.spestatistica.pt/index.php/seccoes-e-comissoes/representantes>.

Figueiredo FO: Invited Professor of the research laboratory LS2N (Laboratoire des Sciences du Numérique de Nantes). Visit to the Institut Universitaire de Technologie de Nantes (Nantes Université) during my sabbatical leave for joint research work with Prof. Philippe Castagliola, Oct. 16-27.

Figueiredo FO: Member of the executive board of PT-MATHS-IN.

Figueiredo FO: Member of the Project SEI - Society, School and Research. This is a joint project of Porto Chamber, Faculty of Economics of the University of Porto and Porto Music Conservatory. This project aims to bring science and researchers closer to the school community, stimulating interest in research and promoting literacy. Ended in July 2023.

Figueiredo FO, **Pereira S** and **Sousa L**: CEAUL representation of the 2nd edition of the event "ANI (Agência Nacional de Inovação) Innovation Fellow Bootcamps". Quinta das Lágrimas, Coimbra, Portugal, May 30.

Gomes MI and **Pestana D**: Associate Editor, "Chaotic Modeling and Simulation" (CMSIM), since Oct 2011, upon invitation of Christos Skiadas. URL: http://www.cmsim.eu/editorial_board.html.

Gomes MI and **Pestana D**: Member of the Scientific Council of SPMet, Sociedade Portuguesa de

Metrologia, since its foundation in 2004. URL: <http://www.spmet.pt/conselhocientifico.html>.

Gomes MI: Associate Editor, "Extremes", 2019-2023, upon invitation of Thomas Mikosch.

URL: <https://www.springer.com/journal/10687/editors>.

Gomes MI: Effective Member of the Academy of Sciences of Lisbon, since Nov 8, 2018,

URL: <https://www.acad-ciencias.pt/academicos/classe-de-ciencias-2/>.

Gomes MI: ISI Committee on Women Statistics, Member of the Supporting Network Country

Representatives, since 2017. URL: <https://cw-isi.org/country-representatives-2/>.

Gomes MI: Scientific Council Member, CIM, 2020-2023, upon invitation of the current CIM

Director, Isabel Narra Figueiredo, University of Coimbra. URL: <http://www.cim.pt/council>.

Gonçalves L: Member - BiostatNet - Red Nacional de Bioestadística, Spain.

Oliveira TA: Chair of the Committee on Risk Analysis of ISI - International Statistical Institute

<https://www.isi-web.org/committee/committee-risk-analysis>. URL: <https://www.isi->

<web.org/committee/committee-risk-analysis>.

Oliveira TA: Coordinator of the Open Repository of Open University in the area of Sciences and

Technology. URL: <https://repositorioaberto.uab.pt/>.

Palmela Pereira C: Affiliated Member from University of Lisbon at the NIST-OSAC with vote

permission group Odontology, subgroup Age Estimation. NIST-OSAC is a Governmental Organization of Scientific Area Committees for Forensic Science's Public Workspace from USA.

Palmela Pereira C and **Santos R**: Registration at the Prospero, International Prospective register

of systematic reviews, the systematic review "A Systematic review of anti-inflammatory agents for oral surgery", under the registration PROSPERO 2023 CRD42023420629 on 03/05/2023.

Collaborators: **Brilhante MF**.

URL: https://www.crd.york.ac.uk/prospero/display_record.php?ID=CRD42023420629.

Palmela Pereira C and **Sousa L**: Effective members of "Comissão de Ética de Ciências" (CEC)

– Faculty of Sciences of University of Lisbon.

Palmela Pereira C: Elected President of the International Organization for Forensic

Odontostomatology (IOFOS), 50th International Organization.

URL: <https://iofos.eu/the-executive/>.

Palmela Pereira C: Forensic Odontologist Expert for the Portuguese Courts.

Ramos SF and **Figueiredo FO**: Member of the National Standardization Technical Committee CT 225 – Applications of statistical methods, since June 2023.

URL: <https://www.ipq.pt/normalizacao/comissoes-tecnicas-de-normalizacao/comissoes-tecnicas/>.

Ramos SF: National Data Manager in the project PIAAC (Programme for the International Assessment of Adult Competencies). URL: <https://anqep.gov.pt/np4/piaac/>.

Rocha C and **Figueiredo FO**: Member of committee CEE (Comissão Especializada de Educação) at Sociedade Portuguesa de Estatística.

Rocha C: Member of the Scientific Council of "Instituto de Avaliação Educativa (IAVE)" on behalf of the Portuguese Statistical Society (SPE).

Silva C: Collaborator of the Directorate-General of Health (DGS) in the Department of Health Quality.

Silva GL: Member of the General Meeting (first member) at Portuguese Statistical Society. URL: <https://www.spestatistica.pt/en>.

Silva C: Member of the Working Group for Big Data Analytics Standardization at the Portuguese Institute for Quality (IPQ).

Silva C: Statistical Consultant for the Portuguese Association for Hospital Development (APDH).