

Curriculum vitae

Francisco Miguel de Sousa Leitão

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Curriculum vitae

1. Personal information

Name: Francisco Miguel de Sousa Leitão.

Contact

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ResearchGate: http://www.researchgate.net/profile/Francisco_Leitao/?ev=prf_highl

Google citation: <http://scholar.google.com/citations?user=ZRRCOJ4AAAAJ>

Researcher IDs

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ResearcherID: M-3980-2013

Scopus Author ID 7003991946

Present position:

- Researcher at the Centre of Marine Science (CCMAR), University of Algarve
- ECOREACH coordinator: <https://www.ccmar.ualg.pt/en/group/ecology-and-restoration-riverine-estuarine-and-coastal-habitats>
- Assistance professor at University of Algarve, Faculty of Sciences and Technology - FCT (2018-2019/2019-2020):

2. Academic Abilities, advance formation and other skills

2.1. Academic profile

Post-Doc2 (SFRH/BPD/108949/2015)

General Domain: Earth Sciences

Scientific domain: Climatic & Fisheries Sciences.

Institution: 2016-2019 – Post-Doc Researcher at Centre of Marine Science (CCMAR/UALG), University of Algarve, Faro, Gambelas (Dr. Alexandra Chicharo) & Fisheries Centre, at University of Vancouver, Canada (co-supervisor William Cheung)

Title: Assess the impacts of climate change on key fisheries and species in Portugal

Overall Theme: predicting the effect of climate changes on coastal fisheries resources.

Post-Doc1 (SFRH/BPD/63935/2009)

General Domain: Earth Sciences

Scientific domain: Climatic & Fisheries Sciences.

Institution: 2010-2016 – Post-Doc Researcher at Centre of Marine Science (CCMAR/UALG), University of Algarve, Faro, Gambelas (Supervisor: Luis Chicharo) & Institute of Marine Research, at Norway, Tromsø (co-supervisor Benjamim Planque).

Title: Trends in Portuguese coastal fisheries landings: the role of hydrological parameters, oceanographic features and fisheries variables

Overall Theme: The effect of climate changes on coastal fisheries resources (ecosystem approach to fisheries). Analyze the effect of climatic variability on exploited fish stocks and fisheries and in understand how this relationship can be determinant for fisheries planning and assessment

2009 - PhD

General Domain: Marine Biology-Earth Sciences

Scientific domain: Fisheries Sciences and Technology, Population Dynamics

Institution: University of the Algarve, FCMA – Faculty of Marine Sciences and Environment (FCMA) and Portuguese Institute of Fishery Research CRIPSul, (IPIMAR-Olhão).

Classification: Distinguished with Very Good

Thesis goals: To study the fish assemblage population dynamics and ecology; Evaluate the contribution of the Algarve Artificial reefs (Southern Portugal) to near shore artesian fisheries.

Link:

https://sapientia.ualg.pt/bitstream/10400.1/332/1/Tese%20doutoramento%20Fleitao_Book.pdf

2004 (April 2001-January 2004)– Master

General Domain: Ecology

Scientific domain: Marine Ecology and small scale inshore artesian Fisheries

Institution: University of Coimbra, Institute of Marine Research, environment and life department of zoology of the science Faculty and technology.

Classification: Very Good

Thesis goals: i) the development of social-economical inquiries to the characterization of artisanal cockle fishermen community (Ria Formosa lagoon) ii) evaluate the impact of

traditional fishing gears (in order to solve conflicts between traditional cockle harvesters and illegal dredging fishermen's) and to study the selectivity and efficiency of harvesting gears. Propose strategies for cockle beds exploitation in order to advice managers regarding the best solution for the sustainability of cockle small-scale fishery (see paper and technical reports).

2003 (Mars)- Post – Graduation

Scientific domain: *Post-graduation* in Science and Geographic Information Systems (S & GIS)

Institution: University of Lisbon (ISEGI-UNL)

Classification: 14 out of 20.

1999 (September 1995 –October 1999) – Licentiate degree (Four-Year degree)

Scientific domain: Marine Biology and Fisheries, specialisation in Fisheries

Institution: University of the Algarve

Classification: 15 out of 20, Good.

2.2. Advanced courses/workshops participation

2022 - Pesca e Aquacultura. “presente, passado e futuro”. workshop. Dia do Pescador. Olhão 31 de Maio de 2022.

2022 - Seafood Industry Challenges: How can we achieved greater sustainability considering the climatic emergence. workshop (Online). Neptunus Project. 25 May 2022.

2020 - Advance course: “Intensive course on niche ecological maps”. Centre of Marine Science – University of Algarve, 20-24 January 2020 (45 hours). Lectured by Prof. Dr. Fernando Cánovas, ‘Universidad Catolica de Murcia, UCAM’

2020 – Advance course: Stock Assessment with Generalized Depletion Models Combined With Population Dynamics Models. Organized by CCMAR, University of Algarve, and Conducted in IPMA-IPIMAR, Olhão –9-12 March 2020 (28 hours).

2018 - CAL-Aqua - Laboratory Animal Science Course. Professional training Certificate (Dec. Reg. N. 35/2002) - 2 -6 julho de 2018, UALG

2017 - Intensive advanced course on Species distribution modeling (SDM - Species distribution modeling with R), also known under other names including climate envelope-modeling, habitat modeling, and (environmental or ecological) niche-modeling. 3-17 Mars 2017, Vancouver University under Willian Cheung close supervision as mentor of my posdoc research. Package ‘biomod2’, ‘raster’, ‘rgdal’, ‘dismo’, ‘rJava’, etc

2016 – Laboratory animal Science course (SPCAL- Sociedade Portuguesa de Ciências em Animais de Laboratório): Animal welfare. Theoretical course

2016 - Presentation skills: Speaking enthusiastically in front of a group. 2nd Mares Conference workshop 2016

2014 – R-Course (advance): Revolution V: quantitative ecology and spatial prediction of species distribution, 40hours, 1-12 December University of Algarve (gRaphics; basic R programming and automatize tasks; preparing statistical reports using R; Rspatial - analysis of vector and raster cartography, also connecting with GRASS and QGIS; aRtistics - experimental design. Hypothesis contrast, ANOVA. Basic multi-variate statistics.; multivaR-: diversity and multivariate analysis: ordination and gradient analyses, ENFA (Ecological Niche Factor Analysis), habitat suitability maps, metapopulation simulations; linear- construction, optimization and evaluation of linear models. Representation and spatial interpretation; modelaRt- construction, optimization and evaluation of non-linear models. Representation and spatial interpretation; generate importation of genetic data, basic diversity estimations, genetic distances, boundaries detection, polyploidy, spatial autocorrelation, Bayesian clustering. Representation and spatial interpretation)

2012 – Advance course: Time-series analysis in marine science and applications for industry. 2-day training course, R-Course (17-18 Sep). Centre nautique Moulin Mer in Logonna-Daoulas, Brittany, France (<http://www.europolemer.eu/time-series-analysis.php>).

2012 - Fishermen Professional course (currently holds the professional fisherman course/License type 2 category, Certificated by FORMAR, national authorized authority).

2011 - Certificate of formation in the areas of Biology, nature and Environmental sciences aiming to lecture continuously formation to school professors (Certificate by Portuguese Scientific Pedagogic council)

2011 - Advanced GIS course (as assistance and lecture of the course also): Practical ecological modelling and analysis for coastal and marine management 11-13 July. LECTURED BY Dr. Jason Roberts (Duke University) & Francisco Leitão (CCMAR, ECOREACH) in University of Algarve (21 hours).

LINK: <http://www.ccmар.ualg.pt/home/index.php?id=901>

2009 - Workshop “Métodos e Técnicas para a elaboração de projectos participativos caso de estudo: Comunidades piscatórias “. 26-27 June. University of Algarve.

In English: “Methods and Techniques for elaboration, development and implementation of participative projects: the fisheries communities as case study.“

- 2009** - Advanced course: Sampling and analysis of freshwater benthic macroinvertebrates and diatoms (in English). 6-9 April. lectured by Dr. Maria João Feio (IMAR-CIC) in University of Coimbra.
- 2008** - Advanced Stock assessment course (27-03-08 to 02-04-08): “Age based stock assessment: A data rich method, a dismal management track record!” lectured by Dr. Einar Hjørleifsson, (United Nations University, Marine Research Institute, Iceland) in University off Algarve.
- 2006** - “Analysing Biological and Environmental Data – Using multivariate analysis” – Course held on University of Algarve, Faro, from 08-12 May by DR. Alain F. Zur (<http://www.brodgar.com/contact.htm>)
- 2005** – “Analysing Biological and Environmental Data – Using Univariate Methods” – Course held on University of Algarve, Faro, from 23-27 May by DR. Alain F. Zur (<http://www.brodgar.com/contact.htm>)
- 2005** – Advance Multimedia and WebDesign course (120 h.)
- 2005** – Scientific drawing course, “Learn to draw, travelling on or right side of the brain”.
- 2005** – Certificate of Pedagogic Skills recognised by the Portuguese Centre of Employment and Professional Ability.
- 2003** – *Post-graduation* in Science and Geographic Information Systems (S & GIS), University of Lisbon (ISEGI-UNL).
- 2002** – Advanced course: Science and geographic information systems: an introduction (Classification: 16 out of 20). University of Lisbon (ISEGI-UNL)
- 2002** - Advanced course: Geo-Spatial Data: Models and operations (Classification: 16 out of 20). University of Lisbon (ISEGI-UNL)
- 2002** - Advanced course: Databases (Classification: 14 out of 20). University of Lisbon (ISEGI-UNL)
- 2002** – Advanced course: GIS application I (Classification: 13 out of 20). University of Lisbon (ISEGI-UNL)
- 2003** – Advanced course: Acquisition, source and quality of data (Classification: 16 out of 20). University of Lisbon (ISEGI-UNL)
- 2003** – Advanced course: GIS Modelling (Classification: 15 out of 20). University of Lisbon (ISEGI-UNL)
- 2003** - Advanced course: GIS: Geo-spatial Data Mining (Classification: 12 out of 20). University of Lisbon (ISEGI-UNL)

- 2003** – Advanced course: GIS Organization (Classification: 14 out of 20). University of Lisbon (ISEGI-UNL)
- 2003** – Advanced course: Remote sensing (Classification: 12 out of 20). University of Lisbon (ISEGI-UNL)
- 2003** - Advanced course: GIS application II (Classification: 13 out of 20). University of Lisbon (ISEGI-UNL)
- 2001** – Advanced course “Modelling: Approaches and Attitudes”, Faculty of Marine and Environmental Science, Sea sciences Centre (CCMAR) of the University of Algarve
- 2001** - Advanced course: *Plant – Animal Interactions*, 81h. (Classification: 16 out of 20) University of Coimbra
- 2001** - Advanced course: *Principles of Pollution Abatement – Integration ecology with industry towards a sustainable society*, 90 hours (Classification: 17 out of 20) University of Coimbra
- 2000** - Advanced course: *Ecological Modelling*, 70h. (Classification: 18 out of 20) University of Coimbra
- 2000** – Advanced course: *Bio-statistical Analysis and Experimental Design*, 60h. (Classification: 18 out 20) University of Coimbra

2.3. Additional skills

- 2012** - Professional Fisherman license, Category 2.
- 2000** – Onboard Commissioner of big game fishing, graduated Commissioner by the Portuguese Federation on *Big-Game-fishing*
- 1999** – Recreational Skipper (motor and sailing; up to 49 feet and 12 miles from the coast) (Recreation skipper licence) -
- 1996** – SCUBA recreational diving course (PII level according to CMAS, more than 700 hundred dives) - Federação Portuguesa de Actividades Subaquáticas
- 1998** – Fishery observer and data collection onboard Tuna boats in Azores (tuna identification, sampling, quantification of catches) and responsible for assess fisheries interactions (marine birds and whales). The course that allow participate on tuna monitoring was accomplished on department of Oceanography and Fisheries of Azores within the programme “monitoring tuna fisheries” (POPA Project - “Programa de Observação da Pesca do Atum”).

3. Work experience/ Participation and collaboration in scientific projects

3.1 Work/Research experience

2019-ongoing – PhD researcher at University of Algarve; Professor

2010-2018 – Researcher at Centre of Marine Science (CCMAR/UALG), University of Algarve, Faro, Gambelas & Institute of Marine Research, at Norway (Tromsø) and Vancouver University (Fisheries Centre).

Research Goals: Evaluate the Fishing trends in Portugal coastal waters and asses the role of hydrological, oceanographic features and fisheries variables on exploited resources. Fisheries time series analyses; Effect of acidification and jellyfish on fisheries and marine productivity. Restauration of habitats. Senior research of the ECOREACH group.

2008-2010 – Researcher in International Centre for Costal Ecohydrology (ICCE-UNESCO International centre) – responsible scientific coordination of ICCE research/scientific team; Projects coordination (2). Research Goals: coordinate the scientific projects within ICCE centre and help to establish a link between research and decision makers (national/regional agencies) based on scientific research.

1998 -2008 - Working at the Portuguese Institute for Fisheries and Sea Research – IPIMAR (IPIMAR/CRIPSUL, at Centro Regional de Investigação Pesqueira do Sul): It has been one of the elements of a research team (<http://www.cripsul.ipimar.pt/contactos/pessoal.php?start=10>). I have participated and collaborated in many research projects: artisanal fisheries, marine ecology, fishing biology, fishing gear technology, impact of fishing gears (dredges, gill and trammel nets), evaluating the fishing potential of AR for artisanal fisheries; legalization of artisanal fishing gears; environment-fish relationships; population dynamics, Aquaculture, Participation in scientific meeting and work groups within projects; Participation National Plan for biological sampling; Data treatment (statistics); Redaction of scientific technical reports and papers in peer review journals.

3.2 Scientific & technical projects Participation

37. 2022-2024: SEARM-FIT – Socioeconomic artificial reef monitoring: fisheries interaction with tourism (Concurso de Projetos de I&D em Todos os Domínios Científicos - 2022; REF/ FCT: 2022.01783.PTDC. (budget: 50000€)

36. MARG-1 PROJECT. Assessing the role of the Bons Sinais estuary as a nursery for fish species of socio-economic interest: contributing for the monitoring and management of coastal ecosystems to improve the livelihood of local communities. MARG-1

PROJECT. WIOMSA – Western Indian Ocean Marine Science Association.
(Budget: 10000USD)

- 36. 2021-2024:** São Tome and Príncipe little fish threatened - a big opportunity to unravel this fishery resource in tropical islands. (Researcher; budget: 250000€) Contract: Aga Khan Development Network (Geneva, Suíça): GRANT_NUMBER: FCT-AGAKHAN / 541718158 / 2019.
- 35. 2021-2022:** Implementação do projeto de Criação de Recifes Artificiais Marinhos em São Tomé e Príncipe. Promotor: MARAPA & Tatô ONGS. Goals: initiative for enhance artisanal fisheries in North São Tomé (Role: Scientific advisor/researcher)
- English:** Deployment of the Marine Artificial Reef in São Tomé and Príncipe for fisheries enhancement
- 34. 2020-2023:** CLIMA-PESCA - Vulnerabilidade do setor das pescas às mudanças climáticas: medidas de adaptação (CLIMA-PESCA) Número: MAR2020-P01M03-0510P (613419.42€) Operação: P01M03 - Inovação e Conhecimento; Ação: Parcerias entre cientistas e pescadores
- 33. 2020-2023** - FONDECYT-1200813 - "Algae-Herbivore Interactions Modulated By Upwelling In The Context Of Global Warming". Fondecy (Conicyt FONDECYT Fondo Nacional de Desarrollo Científico y Tecnológico)
- 32. 2019-2021 - UALG/AdA - PS UALG/Águas do Algarve (AdA) 2018-2022.** Acordo Específico de Colaboração entre a AdA e a UALG, Monitorização dos Recursos Hídricos Superficiais e Qualidade de Água, Águas Subterrâneas e Fauna Bentónica. (member of scientific team, Technical project)
- 31. 2018-2021 - CLIMFISH** - (Main coordinator: budget: 151.443€; Start: 01-07-2018) - Sistema de Apoio à Investigação Científica e Tecnológica (SAICT) – Aviso n.º SAICT-45-2017-02 - Projeto de Investigação Científica e Desenvolvimento Tecnológico (IC&DT), financiada por Fundos Europeus Estruturais e de Investimento (FEEI) – Programa Operacional Regional do Algarve e por fundos nacionais (FCT-MEC), no âmbito do projeto de investigação “CLIMFISH: Análise da vulnerabilidade da pesca costeira às mudanças climáticas na costa Portuguesa (English: CLIMFISH - A framework for assess vulnerability of coastal fisheries to climate change in Portuguese coast) ref. ALG-01-0145-FEDER-028518; PTDC/ASP-PES/28518/2017
- 30. 2018-2021 - LuandaWaterFront** - (scientific team; budget: 297081€) Luanda Bay Ecological Assessment: A waterfront based approach to reduce environmental risks and increase quality of life. FCT Project - FCT is the Portuguese national funding agency for science, research and technology, Approved 9 February, awaiting to sign contract (Reference Proposal: 333191101).
- 29. 2018-2021 - BIOFISH-QoL** - (Main coordinator: budget: 424348€) - Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique). FCT Project - FCT is the Portuguese national funding agency

for science, research and technology, Approved 9 February, awaiting to sign contract (Reference Proposal: 330785505). Found: Fundação para a Ciência e a Tecnologia (FCT I.P.) e a Rede Aga Khan para o Desenvolvimento (AKDN).

28. 2018-2021 **CRUSTAPANHA** (Main coordinator: budget: 677.018€) - Contributo para a sustentada da pequena pesca de CRUSTACEOS (pequenos caranguejos): Estudo da ecologia, biologia e dinâmica populacional dos pequenos caranguejos com interesse comercial existentes ao longo da costa Portuguesa. - MAR2020: Proteção e Restauração da Biodiversidade e dos Ecossistemas Marinhos Portaria nº118/2016, de 29/04 (Artigo 4.º alínea c - Contribuição para um melhor gestão ou conservação dos recursos biológicos marinhos); Projeto n.º 16-01-04-FMP-0005 (Founded by MAR2020)
27. 2015-2019 **MINOUW** - Science, Technology and Society Initiative to Minimize Unwanted Catches in European Fisheries) - MINOUW is a EU H2020 RIA project addressing topic SFS-9-2014: Towards a gradual elimination of discards in European fisheries. A Consortium of 15 beneficiaries and 4 linked parties participate in the project actions. The Consortium includes fisheries technologists, fisheries scientists, universities, a non-governmental organization and local fisheries managers. It as a budget of ca. 6 M € for a duration on 4 years (March 2015 – Feb. 2019).
26. 2015-2016: **SWAMO** - Sowing Water in Monchique Mountain” within the Programme AdaPT, Adaptando Portugal às Alterações Climáticas (scientific coordinator)
25. **2016-2018: JELLYFISHERIES** PTDC/MAR-BIO/0440/2014 - Towards an integrated approach to enhance predictive accuracy of jellyfish impact on coastal marine ecosystems (Founded by Portuguese Science and technology Foundation)
24. **2013-2014- MOFETA** (EXPL/MAR-EST/0604/2013) - Investigating the ecological effects of ocean acidification in shallow water volcanic CO₂ vents of the Azores.
23. **2009-2011- ARH** – Hydrographic Region Administration. “Implementation of the European Water Framework Directive on continental waters in the Algarve - Portugal. Assessment of Macro-invertebrate and GIS development” (Scientific coordination at UNESCO-ICCE, Technical projects).
22. **2008-2010** - REN – National Electric Network “ Environmental impact Assessment of used cooling water from Natural Gaz production plant on adjacent coastal zone (3 years consultancy, (member of scientific team, Technical projects)
21. **2011** - Consultant/ adviser (Environmental impact analysis) of the AquaSacrum Lda. It was responsible (scientific coordination) for the pre-implementation environmental impact study regarding the effect of deployment a logline bivalve offshore farming on marine communities, sediments and water proprieties (May 2011).
20. **2009** – MareFormosa – Estudo morfodinâmico e sedimentar do delta de enchente da barra de S. Luís. English: Morphodynamics of the flood and tidal delta of Sto Luis

inlet (Ria Formosa). (Member of scientific team) Link: <http://w3.ualg.pt/~dduarte/Research/Research.html>

19. **2009-2014** - ERA-Net IWRM-Net European Programme (ERA-IWRM/0003/2009). Developing an Integrated Model to Predict Abiotic Habitat Conditions and Biota of Rivers Application in Climate Change Research and Water Management - IMPACT (<http://www.impact.igb-berlin.de/>) (2010-2014) (Member of PT Partner)
18. **2008 - 2010** FREEZE - Submarine FREshwater dischargEs: characteriZation and Evaluation study on their impact on the Algarve coastal ecosystem (PTDC/MAR/102030/2008). Main goal (Task 5): Evaluate the impact of groundwater discharge on coastal phytoplankton and benthic assemblages (Scientific coordination).
17. **2009-2010** - INTERREG project: “Development and harmonization by Portugal and Spain of new indicators and common methodologies for the implementation of the Water Framework Directive in transitional and coastal waters of the Guadiana” DIMEAGUA(2009-2011), (0252_DIMEAGUA_5_P) (Member of the Leader Partner)
16. **2009** - “Ecological classification of Algarve coastal and transitional waters” (Scientific coordination)-UNESCO-ICCE project. Environmental Protection Agency - ARH-Algarve [Link](#)
15. **2009-2010** - “Ecological classification of Algarve streams” (Scientific coordination)-UNESCO-ICCE project. Environmental Protection Agency - ARH-Algarve [Link](#)
14. **2008** – SELECT-PAL: “*Pescaria nacional de palangre de superfície dirigida ao espadarte (Xiphias gladius) e tubarões pelágicos no Atlântico. PNAB - EU/PIDDAC*”. **English** - National longline surface fishing targeting swordfish (*Xiphias gladius*) and pelagic sharks in the Atlantic
13. **2006** – Consultant/ adviser (Socio-economic impact analysis) of the SINFIC (Sistemas Inf. Ind. e Consultoria, S.A). It was responsible (scientific coordination) for the Health, Environmental and socio-economic impact study regarding the impact of a liquid natural gas facility construction (in Angola, Africa Continent) on Estuarine/marine environment and associated artisanal fishing communities.
12. **2005 - 2007** – INTERREG III-A, GESTPESCA II “Bases científicas para a gestão de pescarias litorais”. **English** - Scientific bases for the management of common coastal fisheries
11. **2002 - 2004** – INTERREG III-A, GESTPESCA I “Bases científicas para a gestão de pescarias litorais”. **English** - Scientific bases for the management of common coastal fisheries
10. **2004-2008** – Full time participation within the Project MARE “Implantação e estudo integrado de sistemas recifais” - INIAP-IPIMAR/MARE-QCA III. **English** - Implementation and integrated study of artificial reef systems

9. **2002 – 2004** - IMPACT (STRIDE/C/-MAR235/92) - “Impacto dos Recifes Artificiais na costa do Algarve”. English - Impact of Artificial reefs in the Algarve Coast
8. **2002 – 2004** - RESTOCK (POCTI / 1999 / BSE / 35608) “Fish restocking associated to the Algarve artificial reefs: environmental mitigation, biodiversity and fisheries management”. (POCTI / 1999 / BSE / 35608).
7. **2001 - 2002** Full time participation within the Project “Impacte da pesca de berbigão com draga de mão e faca de mariscar sobre a comunidade macrobentónica da Ria Formosa” (Founded by – PIDDAC). **English** - Cockle fishing impact with hand dredge and harvesting knife on the macrobenthic community of Ria Formosa
6. **2000-2001** – Full time participation within the Project IMPACTO "Assessing the Impact of Bivalve Fisheries on the Benthic Ecosystems of the Ria Formosa Lagoon (Portugal), Venice Lagoon (Italy) and Aegean Sea (Kavala - Greece) - IMPACTO". (Projecto EC/DG XIV - N° 062/99).
5. **1999 – 2002** - Full time participation within the Project FAIR ECODREDGE (FAIR-CT98-4465), – *Evaluation and Improvement of Shellfish Effort in Relation to Technical Conservation Measures and Environmental Impact*, EU project developed in the Institute of Fishery research, IPIMAR – CRIPSul, (Olhão).
4. **1999 – 2005** - “Estudo dos Bivalves de Interesse Económico do Litoral Oceânico Algarvio” (PIDAC / IPIMAR). **English** - Study of the Bivalve Economic Interest in Algarve Coastal waters
3. **1999 – 2002** Fantared II” (FAIR-PL98-4338) - “A study to Identify, Qualify and Ameliorate the Impacts of Static Gear Lost at Sea. “
2. **1999 – 2000** - “Hake Set Gears Fisheries in Mediterranean and Eastern Atlantic waters” (EU study contract ; 97/0064).
1. **1999** – “A study to asses the viability of the fishery to *Pennaeus Kerathurus japonicus* shrimp with trammel nets, in Quarteira”. (IPIMAR/CRIPSul Project).

Project coordination as PI -Scientific supervision/co-supervision):

- 2022 - 2022-2024:** SEARM-FIT (Co-PI: budget: 549.5456€) – Socioeconomic artificial reef monitoring: fisheries interaction with tourism (Concurso de Projetos de I&D em Todos os Domínios Científicos - 2022; REF/ FCT: 2022.01783.PTDC. (budget: 50000€)
- 2020-2023:** CLIMA-PESCA (Main coordinator: budget: 549.5456€- Vulnerabilidade do setor das pescas às mudanças climáticas: medidas de adaptação (CLIMA-PESCA) Número: MAR2020- Operação n.ºMAR-01.03.02-FEAMP-0052 (549.5456€) Operação: P01M03 - Inovação e Conhecimento; Ação: Parcerias entre cientistas e pescadores.

- English:** CLIMA-PESCA - (Main coordinator: budget: 549.5456€) - Vulnerability of the fishing sector to climate change: adaptation measures (CLIMA-PESCA) Number: MAR2020-P01M03-0510P, Operation: P01M03; Innovation and Knowledge Action: Scientists-Fishermen Partnerships.
- 2018** - CLIMFISH - (Main coordinator: budget: 151.443€) - A framework for assess vulnerability of coastal fisheries to climate change in Portuguese coast. SAICT-45-2017-02. Designação: Projetos de Investigação Científica e Desenvolvimento Tecnológico (IC&DT). Project Number: 28518; Reference: PTDC/ASP-PES/28518/2017;
- 2018** - BIOFISH-QoL - (Main coordinator: budget: 424348€) - Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique) under climate change treats. FCT Project - FCT is the Portuguese national funding agency for science, research and technology (approved, awaiting contract officialization). Reference Proposal: 330785505
- 2018-** CRUSTAPANHA (Main coordinator: budget: 677.018€) - Contributo para a gestão sustentada da pequena pesca de CRUSTACEOS (pequenos caranguejos) num cenário de alterações climáticas: Estudo da ecologia, biologia e dinâmica populacional dos pequenos caranguejos com interesse comercial existentes ao longo da costa Portuguesa. - MAR2020: Proteção e Restauração da Biodiversidade e dos Ecossistemas Marinhos Portaria n°118/2016, de 29/04 (Artigo 4.º alínea c - Contribuição para um melhor gestão ou conservação dos recursos biológicos marinhos); Projeto n.º 16-01-04-FMP-0005 (Founded by MAR2020). English: Contribution to the sustainable management of artesinal small crab fisheries under climate change effects.
- 2008-2010** - FREEZE - Submarine FREshwater dischargEs: characteriZation and Evaluation study on their impact on the Algarve coastal ecosystem (PTDC/MAR/102030/2008). Main goal (Task 5): Evaluate the impact of groundwater discharge on coastal phytoplankton and benthic assemblages. (co-PI of Task 5)
- 2009** - “Ecological classification of Algarve coastal and transitional waters” (Group Scientific coordination): Main goal: ICCE will promote scientific debate, and will try to bring together scientist opinions, and compile information aiming the application of suitable methodologies for the definition of coastal and transitional waters classification and establish guidelines for monitoring the water quality in Algarve (RH8, Portugal). [Link](#)
- 2009** - DIMEAGUA (INTERREG – cooperação transfronteiriça (0252_DIMEAGUA_5_P). Main goal: To quality the ecological status of coastal and transitional water in Guadiana River and determine monitoring and biological indicators for water quality within the Water frame Directive. (co-PI)
- 2009** - “Avaliação da qualidade Ecológica das ribeiras do Algarve” (Group Scientific coordination): Main goal: To quality the ecological status of South rivers and

determine water quality within the Water frame Directive. International Centre of Coastal Ecohydrology. [Link](#)

3.3 Scientific & technical projects /networks

1. **2018** - European cooperation in Science & technology; CA *COST Action* CA15217. Title: Ocean Governance for Sustainability - challenges, options and the role of science (OceaGov). WG5 - Ocean Climate and Acidification (OCA). 3rd International Symposium of Ocean Governance and Sustainability, Aveiro 11-12 June 2018

Link1: https://www.oceangov.eu/working_groups/ocean-climate-change-acidification/

Link2: https://www.oceangov.eu/news_full/a-new-special-issue-in-frontiers-in-marine-science-in-preparation-vulnerability-of-fisheries-to-climate-change/
2019

2. **2019** - European cooperation in Science & technology; CA *COST Action* CA15217. Title: Ocean Governance for Sustainability - challenges, options and the role of science (OceaGov). WG5 - Ocean Climate and Acidification (OCA). Marine Biology Station Piran, Nacional Institute of Biology, workshop/conference of the Working Group Meeting of the COST Action OceanGov from 7th till 8th March 2019 in Piran, Slovenia

<http://www.nib.si/eng/index.php/novice/613-marine-biology-station-piran-nacional-institute-of-biology-is-organizing-the-working-group-meeting-of-the-cost-action-oceangov-from-7th-till-8th-march-2019-in-piran-slovenia>

3.4 Other projects Related with Area

1998/2000 – As a member of “Associação Portuguesa para o Estudo e Protecção de Eslamosbrânquios” (<http://www.apece.pt/>) was the main responsible for the implementation of catch/release practises in big-game shark fishery in Algarve. The project intends to give formation relating shark biology and promoting to the sensibility of implement best fishing sportive practises. The works include trips onboard big-game shark fishing fleet to mark sharks and pass the know how to fishermen’s, including biological information. Within this project it was made several presentations (providing advance formation to fishermen) within big-game fishing sport tournaments.

3.5 Other submitted non-founding Projects (as PI)

2008 - Project Founding: PTDC/AAC-AMB/102894/2008; ACRONYM: Impact of aquatic invertebrate alien species in estuaries ecosystems - Guadiana as a study case

2010- PTDC/AAC-AMB/120649/2010 - CLIMFISH - Climate change's (hidrologycal & Oceanographic) effects on coastal fishery

2010 - PTDC/MAR/119222/2010 - BHydrOF: The importance of integrate Hydrologic and Oceanographic effects (Climatic) for the sustainable management (IWRM and ICZM) of coastal Bivalve Fisheries.

2013 - EXPL/AAG-REC/1059/2013 - CLIMFISH - Atlas: Atlas of the sensibility of the species caught in commercial fisheries to climatic variability

2014 - PTDC/MAR-BIO/2679/2014 - FISHCLIM: Predicting the impact of climate-driven changes in marine fisheries

2014 - PTDC/AAG-GLO/2572/2014. Unravelling the POLYP stage: an avenue for the management of jellyfish blooms?

2015 - MOsAIC – MOdelling fisherieS and Aquaculture Impacts in Mediterranean Coastal areas ; Project Founding: COFASP (Cooperation in Fisheries, Aquaculture and Seafood Processing(2ndCall – ERA-Net)

2016 - ACRONYM: AtlanSar; Project Founding: SARDINE_INTERREG; Project code number: EAPA_309/2016

2019 – CIRCNA/BRB/0223/2019 - Integrative Science to asses fisheries socio-economies vulnerability to climate change uncertainty effects (Coordinator)

2020 - PTDC/ASP-PES/3445/2020. Assessment and management of estuarine mud crabs' fisheries (Coordinator)

2020 - PTDC/BIA-BMA/2444/2020. LOSTATSEA – A fase perdida das espécies de vertebrados no mar/ The lost phase of vertebrate species at sea (Equipa Cientifica)

2021 - Candidatura EEA.BG.CALL4.2020 – IMPACT-FISHERIES: Climate Change impact on fisheries. EEA grants 2014-2021 – Programa de Crescimento Azul (Aviso#4)

2021 - iFRAMS: Integrated Fisheries Reporting And Monitoring Solution. Call: HORIZON-CL6-2021-FARM2FORK-01-11 — Digital transition supporting inspection and control for sustainable fisheries. EU Grants: Application form (HE RIA/IA): V1.2 – 25.05.2021 (Task 1 and Task 5 coordination)

3.6 Research interests

My research most focus on quantitative analysis and assessment of exploited fish stocks and fisheries based on collection, management and regional analysis of fisheries, including the use of Artificial Reefs. This include undertake analyses and interpretation of biological and ecological data and fisheries statistics (time series analyses- statistical analyses of data collected for the assessment of commercial fisheries) and provide scientific support for enhance regional management with potential effect on policy advice (namelly Marine Policy Strategy that is mandatory by EU commision). My research aims provide a sound basis for assessing the vulnerability of coastal fisheries and marine ecosystems/ecology to climate changes and fisheries by understand the status of the fisheries and linked fluctuation in fisheries time series with ecology and environmental interactions. Predicting the effect of short- to long-term climatic changes on the productivity, fisheries dynamics and distribution of coastal stocks and fisheries is also one of the main objectives. Therefore, my current research is expected to assist the development of the national strategies for articulate European and National, CFP, IWRM and ICZM (that highly the strategic importance of coastal areas) through a participatory approach promoting an active role of water managers, social stakeholder and water resources end-users, as water resources are recurrently and chronically exchanged between inland and coastal water systems. The interdisciplinary character of my research interests initiates constant collaboration with scientists from computer, natural and life sciences.

4. Experience in scientific cruises (only most scientific/technical)

1998 – 2019 – Several commercial trips in nearshore small artisanal local boats, seine and trawl boats for biological sampling and assess gear selectivity and impact on environment (more than 60 trips); octopus fishery; estuarine fisheries onboard small scale boats for biological sampling, characterization, socio-economic inquiries

2008 – Onboard a longline commercial shark fishing boat (from 12 October to 21 November) for characterise longline catches, biological sampling and hook selectivity experiments.

2003-2008 – Scientific Research Vessel “NI Puntazzo” within projects MARE - “Estudo do Impacto dos Recifes Artificiais na Costa Algarvia” and “Campanhas de Bivalves do Litoral Algarvio” (several campaigns)

1998-2003 Onboard the scientific vessel “NI Donax” within the aim of the following projects: Fantared II” (FAIR CT98-4338); ECODREDGE (FAIR CT98-4465). “Hake set gears fisheries in Mediterranean and eastern Atlantic waters” (Study Contract 97-0064). Scientific vessel “NI Donax”, “Impact of Artificial reefs in the Algarve Coast” (STRIDE/C/-MAR235/92). (several campaigns)

1998 - Scientific vessel campaign onboard “Noruega” within the project “Deep sea fishes cruise” (7 to 23 August).

5. Academic activities related with area

- Marine Ecosystems (Marine Biology Master & Marine Sciences bacharel) - Codes: 14060643

- Dynamic of Aquatic ecosystem (Marine Biology Master) - Codes: 14331053

- Fisheries Biology and Ecology (Marine Biology Master & Aquaculture and Fisheries master) Codes: 14301041 & 14331051

Ano Letivo	Período	Código	Unidade Curricular	Ação	id
2018-19	1º Semestre	14301041	BIOLOGIA E ECOLOGIA PESQUEIRA		14301041:201819:S1
2018-19	1º Semestre	14331051	BIOLOGIA E ECOLOGIA PESQUEIRA		14331051:201819:S1
2018-19	1º Semestre	14331053	DINÂMICA DE ECOSSISTEMAS AQUÁTICOS		14331053:201819:S1
2018-19	2º Semestre	140064313	ECOSSISTEMAS MARINHOS		140064313:201819:S2

- Assistance professor at University of Algarve, Faculty of Sciences and Technology - FCT (2019-2020):

- Nekton and Benthic Processes - (Marine Biology bacharel) - biologia marinha (1.º ciclo) (1412)- processos bentónicos e nectónicos. 14121172

- Marine Ecosystems - (marine biology bacherel) - biologia marinha (1.º ciclo) (14121172)

- Fisheries Biology and Ecology (aquaculture and fisheries master) - aquacultura e pescas (2.º ciclo) (1430)

- Fisheries Biology and Ecology (marine biology master)- biologia marinha (2.º ciclo) (1433)

Ano Letivo	Período	Código	Unidade Curricular	Ação	id
2019-20	1º Semestre	14301041	BIOLOGIA E ECOLOGIA PESQUEIRA		14301041:201920:S1
2019-20	1º Semestre	14331051	BIOLOGIA E ECOLOGIA PESQUEIRA		14331051:201920:S1
2019-20	1º Semestre	14121172	PROCESSOS BENTÓNICOS E NECTÓNICOS		14121172:201920:S1
2019-20	2º Semestre	140064313	ECOSSISTEMAS MARINHOS		140064313:201920:S2

Other teaching experience:

In University:

2022 - Leitão F. 2022. Fisheries Ecology and climate change (master class). Invited by University Andres Bello, Faculdade de Ciencias de la vida. 14 of July.

2018 – Lecture: Aquisição de dados em biologia: da amostragem biológica (desenho experimental) a dados recolhidos na internet (metadados): Tópicos em Biologia. Faro – 24th November 2017. (Invited by Prof. Rui Santos)

2017 – Lecture: Aquisição de dados em biologia: da amostragem biológica (desenho experimental) a dados recolhidos na internet (metadados): Tópicos em Biologia. Faro – 24th November 2017. (Invited by Prof. Luis Chicharo)

2014 - Leitão F. 2014. Dynamic of coastal fisheries resources: ecosystem approach to fisheries. Seminar to student of dynamic of aquatic ecosystems within ERASMUS MUNDUS Biodiversity and Conservation MASTER. 17 de Outubro

2012 - Lecture of International Summer Course in Ecohydrology: From River To Coasts. Integrating river influence on coastal fisheries dynamics (Doutor Francisco Leitão). 01 August. University of Algarve (Invited by Prof. Luis Chicharo)

2012 - Lecture of the Seminars of Ecology of resources, Master in Aquaculture & Fisheries. Climatic changes and near shore fisheries (Doutor Francisco Leitão). 15 June. University of Algarve (Invited by Prof. Karim Erzini & Prof. Alexandra Chicharo)

2011 - Lecture of the ERASMUS MUNDUS Master of Science in Ecohydrology: (Invited by Prof. Luis Chicharo): Ecological data management, exploitation and analysis

2011- Practical field lectures of Marine Biology course (Biology of Invertebrates) and Master (Ecosystems Dynamics)

2011 - Algarve artificial reefs fish assemblages and trophic ecology: implications for the local near shore fisheries (Francisco Leitão) 09 June 16:00 2.14. Lecture of the Seminars of Ecology of resources, master in aquaculture & fisheries (Invited by prof. Alexandra Chicharo)

2010 - Algarve artificial reefs fish assemblages and trophic ecology: implications for the local near shore fisheries (Francisco Leitão) 09 June 10:00 2.14. Lecture of the Seminars of Ecology of resources, master in aquaculture & fisheries (Invited by prof. Alexandra Chicharo)

2009 - Algarve artificial reefs fish assemblages and trophic ecology: implications for the local near shore fisheries (Francisco Leitão) 30 April 17:00 2.57. Lecture of the Seminars of Ecology of resources, master in aquaculture & fisheries (Invited by prof. Alexandra Chicharo)

2009 - Introduction to multivariate ecological data analysis. (Francisco Leitão), 6th October 16:00 to 18:30. (Master classes in aquaculture & fisheries (Invited by Prof. Luis Chicharo)

2009 - Introduction to multivariate ecological data analysis. (Francisco Leitão) 13th October 16:00 to 18:30. (Master classes in aquaculture & fisheries (Invited by Prof. Luis Chicharo)

In secondary schools:

2009 -2011 - In collaboration with Algarve University as UNESCO researcher we develop a course about “Environmental water volunteering” schools project. These sessions aimed to provide school secondary teachers with the technical know-how regarding Aquatic systems functioning at a basin scale (LOICZ) and streams bio-assessment using biological indicators (macroinvertebrates).

At UNESCO Activities:

2009- 2011 – It was participated in several events by invitation or within ICCE – International centre for Coastal ECOHIDROLOGY Activities as a speaker and have been involved in advances seminar (more than 300 hours as a speaker in school and to the broad public) regarding Educational, Science, Organization & Cooperation.

Due to the knowledge acquire regarding Data Bases was invited to lecture (*FormAlgarve* formation centre) the following advanced formations graduation courses (advanced courses)

2007 - Data base (MS Access) former (30 hours)

2006 - Data base (MS Access) former (28 hours)

2013-2014 - Acção de Formação continua, Macroinvertebrados e Sistemas Costeiros. Escolar secundária João de Deus, Faro; Destinatarios: Professores de ensino secundário; Modalidade : Oficina de Formação Carga horária: 25 horas, Centro de Formação a Ria Formosa inicio 27 Dezembro; Categoria: Formador

English: Category: Head of the formation in Macroinvertebrates and coastal systems; Target audience: secondary school teachers; content of the formation: FL lecture 25 hours enabling participants to get a certificate

5.1. Other activities related with area/ Private sector/consultant work.

Consultancy works /Technical projects: as consultant I have huge interest regarding environmental, health , socio-economic impact avaluation of technical applied projects.

2021-2022 - Consultant for the consortium “BIODIVERSITY2030: Biodiversity and Oceans” lead by the University of Évora. Work requested by the Ministry of Environment and Climate Action and Portuguese Environmental Found. September-February 2022. Thematic: Responsible for fisheries time series and role of climate

change on fisheries

PT: Consultor do consórcio “BIODIVERSIDADE2030: Biodiversidade e Oceano” liderado pela Universidade de Évora. Trabalho desenvolvido para o e Fundo Ambiental. Setembro 2021 – Fevereiro 2022.

2021-2022 - Consultant/ adviser of ONGs MARAPA & TATÔ Scientific Consultant of BUDOKIA project: Installation Project of Artificial Marine Reefs in the coastal zone of the island of São Tomé (São Tomé and Príncipe), Promoters: MARAPA & Programa Tatô. Thematic: Artificial Reef Project In São Tomé To Promote Small Artisanal Fisheries

2018-2021 - Consultant/ adviser of LES – Laboratório De Engenharia Sanitária, University of Algarve. Campus Penha. Thematic: Characterization of Ecological Quality (streams of Algarve) - Benthic macroinvertebrates as bioindicators.

2016-2017 – Consultant/ adviser (Socio-economic impact analysis) of the SINIFIC (Sistemas Inf. Ind. e Consultoria, S.A). It was responsible (scientific coordination) for the conception and elaboration of the contents of the course of Aquiculture, within Education Ministry of Angola technical-professional Formation area. It was the responsible for technical and scientific development of several manuals the course of “Marine biology, ecology, fisheries and aquaculture technical course in Angola”

2013-2016: Consultant of Portuguese Environmental Agency (APA) at Algarve (Hydrographic Regional Administration). Theme: evaluating water quality using benthic macroinvertebrates in Algarve streams within water frame directive mandatory policy

2011- Consultant/ adviser (Environmental impact analysis) of the AquaSacrum Lda. It was responsible (scientific coordination) for the pre-implementation environmental impact study regarding the effect of deployment a logline bivalve offshore farming on marine communities, sediments and water properties (May 2011).

2011 - Consultant/ adviser (Environmental impact analysis) of the AquaSacrum Lda. Feedback Opinion: Clarification about problems aroused by fishermen’s to the development of a shellfish farming structure for ostra *Crassostrea angulata* in offshore waters off Algarve. 8p.

2011 - Consultant/ adviser (Environmental impact analysis) of the AquaSacrum Lda. Monitoring plan for development of shellfish farming for ostra *Crassostrea angulata* in offshore waters off Algarve. 18p.

2011. Consultant/ adviser (Environmental impact analysis) of the AquaSacrum Lda.) ESTUDO DE INCIDÊNCIAS AMBIENTAIS, Estudo Prévio RESUMO Maio de 2011: Sistema de cultura suspensas em mar aberto (cultura em Off-Shore), para crescimento de bivalves, destacando-se a ostra portuguesa (*Crassostrea angulata*), em regime de produção extensivo. 14p. English: Suspended bivalves aquaculture systems in coastal waters (longline culture) for growth of Portuguese oyster (*Crassostrea angulata*)

2006 – Consultant/ adviser (Socio-economic impact analysis) of the SINFIC (Sistemas Inf. Ind. e Consultoria, S.A). It was responsible (scientific coordination) for the Health, Environmental and socio-economic impact study regarding the impact of a liquid natural gas facility construction (in Angola, Africa Continent) on Estuarine/marine environment and associated artisanal fishing communities.

6. Supervision or co-supervision experience (Researchers/fellowships/students)

Posdoc – PhD researcher (4)

- Juan Bueno Pardo. 2019. A framework for assess vulnerability of coastal fisheries to climate change in Portuguese coast. PhD researcher within project CLIMFISH)
- Eudriano Costa. 2019. Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique) (PhD researcher within project BIOFISH-QoL)
- Laura Sordo. 2020. Effect of climate change in fisheries (PhD researcher within project CLIMFISH)
- Marta Albo Puigserver. 2020. Vulnerability of the fishing sector to climate change: adaptation measures (PhD researcher within project CLIMAPESCA)

Fellowship grants supervision (9)

- Diana Sofia Nunes Gonçalves (master fellowship Grant). Projeto n.º 16-01-04-FMP-0005: CRUSTAPANHA (ongoing)
- Andreia Ovelheiro (master fellowship Grant). Projeto n.º 16-01-04-FMP-0005: CRUSTAPANHA (ongoing)
- Mariana Figueira Alves dos Anjos (master fellowship Grant). Projeto n.º 16-01-04-FMP-0005: CRUSTAPANHA
- João Nuno Gomes Monteiro (master fellowship Grant). Projeto n.º 16-01-04-FMP-0005: CRUSTAPANHA (ongoing)
- Anna Charlotte Kirchner (master fellowship Grant). Projeto n.º 16-01-04-FMP-0005: CRUSTAPANHA
- Paula Beatriz Moura da Vinha (master fellowship Grant). Projeto n.º 16-01-04-FMP-0005: CRUSTAPANHA

- Miguel Pinto (master fellowship Grant). Projeto n.ºMAR-01.03.02-FEAMP-0052CLIMA-PESCA)
- Ana Catarina Vasconcelos Adão (master fellowship Grant) BIOFISH-QoL Reference Proposal: 330785505
- Daniela Nobre da Silva. (master fellowship Grant) BIOFISH-QoL Reference Proposal: 330785505 (ongoing)

Doctoral students (6)

- João Monteiro. Population Dynamics and biological aspects of mud crabs (*Carcinus maenas*; *Uca tangeri*) caught along Portuguese coast: contribution for fisheries management. PhD - Doctoral Program in Marine, Earth and Environmental Science. University of Algarve, Faculty of Sciences and Technology. University of Algarve.
- Miguel Pinto Vulnerability assessment of Portuguese fisheries to climate change. University of Algarve. (within Project CLIMA-PESCA). PhD - Doctoral Program in Marine, Earth and Environmental Science. University of Algarve, Faculty of Sciences and Technology. University of Algarve.
- Rogério Ferreira (SFRH/BD/73947/2010) - Title: Hawksbill Sea Turtle, *Eretmochelys imbricata*, Population Dynamics in Príncipe Island. Faculdade de Ciências e Tecnologia da University of Algarve (ongoing).
- Vânia Baptista (SFRH/BD/104209/2014): Influence of oceanography and larvae behaviour on recruitment of temperate fishes: The importance of physics–biology links to manage fisheries at a local scale. Faculdade de Ciências e Tecnologia da University of Algarve (Approved 31 October 2019).

https://sapientia.ualg.pt/bitstream/10400.1/13616/1/Thesis_Final.pdf

- Jeremias Joaquim Mocuba. 2016. Small scale fisheries and recruitment Ecology of fisheries resources along to the Bons Sinais Estuary - Mozambique. Faculdade de Ciências e Tecnologia da University of Algarve (ongoing).
- Bonifácio Carlitos Manuessa. 2016. Population dynamics, Ecology, reproductive biology and socioeconomic importance of the mud crab *Scylla serrata* captured by artisanal fishing along to the Bons Sinais Estuary - Mozambique. Faculdade de Ciências e Tecnologia da University of Algarve (ongoing).

Master Students (14)

- Thiebaut Romane. 2022. Adaptation and mitigation measures to climate change of the Portuguese fishing community. Université de Perpignan. 6-month internship at CCMAR facilities. (FL Scientific supervisor).

- Ruben Perez. 2018. Effect of environmental on sea turtles populations in São Tomé and Príncipe island. Master of Science in Marine Biodiversity and Conservation. International Master of Science in Marine Biodiversity and Conservation EMBC+. University of Algarve. 40pp.

- Rute Louceiro da Silva. 2017. Ecologia do crustáceo decápode não nativo (NIS) *Palaemon macrodactylus* no ecossistema estuarino do Guadiana. (BM) Marine Biology (ongoing)

- Pedro Monteiro. 2016. An analysis of westerly wind intensity on the Portuguese coastline: establishing a baseline for long and short terms of westerly wind intensity in three locations of the Portuguese coastline. International Master of Science in Marine Biodiversity and Conservation, EMBC+, university of Algarve). 38pp.

- Nacho Pérez Blasco. 2016. Environmental Variability And Fishing Effects On Artisanal Commercial Flatfish Fisheries Along The Portuguese Coast. (International Master of Science in Marine Biodiversity and Conservation, EMBC+, university of Algarve) 39pp.

- Domingas Perpétua André Quiatuhanga. 2015. Ecologia alimentar, Idade e crescimento, aspectos reprodutivos e relações morfométricas da *Sardinella aurita* (Valenciennes, 1847) e *Sardinella maderensis* (Lowe, 1838) na costa sul de Angola. Dissertação apresentada à Faculdade de Ciências e Tecnologia da Universidade do Algarve para obtenção do grau de Mestre em Biologia Marinha. 106pp. (Marine Biology master, University of Algarve)

- Nelson Baiao Cambinda. 2015. Crescimento, ecologia alimentar e reprodução do Carapau do Cunene (*Trachurus trecae*; Cadenat, 1949), na costa sul de Angola-Namibe. Dissertação apresentada à Faculdade de Ciências e Tecnologia da Universidade do Algarve para obtenção do grau de Mestre em Biologia Marinha. 88pp. (Marine Biology master, University of Algarve)

- Marta Isabel Oliveira Martins. 2015. Ocean acidification in shallow water volcanic CO₂ vents of the Azores: effects of macrobenthic assemblages. Master of Science in Marine Biodiversity and Conservation. Within the ERASMUS MUNDUS Master Programme EMBC. 69pp. (Master of Science in Marine Biodiversity and Conservation)

- Vitali Bakun. 2013. A multimodel approach to assess the effect of climate Changes over demersal fisheries in Portuguese coast (M. Merluccius and Micromesistius poutassou). Master thesis submitted for the fulfillment of the title of Master of Science in Marine Biology. 87pp. (University of Algarve, Marine Biology Master, Unpublished)

- Viola Alms. 2013. A multi-model approach to analyse environmental effects on small (Sardina pilchardus) and medium (Scomber scombrus) pelagic fish species along the Portuguese coast. Master of Science in Marine Biodiversity and Conservation. ERASMUS MUNDUS Master Programme EMBC. June 2013. 73p. (Erasmus Mundus programme Marine Biodiversity and Conservation at Bremen University) Link: <http://embc.marbef.org/index.asp?p=1660&a=1660&mod=teacher&id=1553>

- Vânia Baptista. 2012 Impacts of environmental changes on bivalves harvesting in Portuguese coast. Dissertação de Candidatura ao grau de Mestre em Ciências do Mar – Recursos Marinhos Especialidade em Biologia e Ecologia Marinhas submetida ao Instituto de Ciências Biomédicas Abel Salazar da Universidade do Porto.(20 - Dezembro 2012). (University of Porto, Institute of Biological Sciences “Abel Salazar”, Aquaculture and Fisheries Master).Link: <http://repositorio-aberto.up.pt/bitstream/10216/68938/2/1541.pdf>

- Hadayet Ullah. 2012. Establishing relationships between climatic variables and coastal fisheries of Portugal. Master thesis submitted for the fulfilment of the title of Master of Science in Ecohydrology. FCT, University of Algarve, 89p. FCT, University of Algarve (6-September). , Master in Ecohydrology, Programa Erasmus Mundus (University of Algarve, Faculty of Sciences and Technology)

- João Encarnação. 2012. Impact of submarine ground water discharges on subtidal meiofauna and macrofauna benthic communities/Avaliação do impacto das descargas submarinas de água subterrânea nas comunidades de meiofauna e macrofauna bentónicas, Olhos de Água (Algarve). Dissertação Para Obtenção Do Grau De Mestre Em Ecologia Marinha. Faculdade de Ciências da universidade de Lisboa. Universidade De Lisboa Departamento De Biologia Animal. 65p. (Universidade de Lisboa, Faculty of Sciences). http://repositorio.ul.pt/bitstream/10451/7829/1/ulfc_tm_joao_encarnacao.pdf

English title: The effect of submarine groundwater discharges over chemical nutrients concentration and planktonic communities in Guadiana saltmarshal estuarine systems.

- Isa Máximo. 2009. Avaliação da qualidade da água das ribeiras do Algarve: uso de macroinvertebrados bentónicos como bioindicadores. Dissertação para a obtenção do grau de Mestre em Biologia Marinha, Especialização em Ecologia e Conservação Marinha. University of Algarve, 50p. FCT , University of Algarve (During April to December, 2009). (University of Algarve, Faculty of Sciences and Technology)

English title: Evaluation of water quality in Algarve watershed: using benthic communities (macroinvertebrates) as bioindicators.

Undergraduate students; 3-4 year degree students (Bachelor); Scientific initiation Grants BII(4); Experimental work students; Internships (13)

- Paula Akemi Ito. 2022. Operações geoespaciais para aquisição e análise de dados climáticos. Projeto. Relatório final da UALG Estágio, integrada no 3º ano da licenciatura de Biologia.

English: Geospatial operations for climate data acquisition and analysis. Project. Final report of UALG Internship, integrated in the 3rd year of the Biology degree

- Ana Margarida Martins Ventaneira. 2021. Fecundidade de caranguejos estuarinos com interesse comercial (*Carcinus maenas*; *Afruca tangeri*; *Eriphia verrucosa*). Relatório final da UALG Estágio, integrada no 3º ano da licenciatura de Biologia. 49pp.

- Maria Helena Couto Almeida. 2020. “Sazonalidade da ocorrência dos estágios larvares da comunidade de braquiúros na Ria de Aveiro, Estuário do Rio Sado e Ria Formosa”. Relatório final da UC Estágio, integrada no 3º ano da licenciatura de Biologia. 49pp

English title: Seasonality of the occurrence of brachyura larval stages community in the Ria de Aveiro, Sado River Estuary and Ria Formosa (Bachelor)

- Carmila Jorge Ofiçane Cuinhane. 2019. Estudo preliminar da Caracterização socioeconómica da pesca artesanal do Cranguejo do Mangal (*Scylla serrata* Forskal 1755) no estuário dos Bons Sinais. Tese de licenciatura em Biologia Marinha. Escola Superior de Ciências Marinhas e Costeiras, Universidade Eduardo Mondlane, Mozambique Quelimane (Bachelor, 4-year-degree; Supervisor: Bonifácio Carlitos Manuessa & Francisco Leitão)

English title: Preliminary study of the socioeconomic characterization of artisanal fishing of Mangal crabs (*Scylla serrata* Forskal 1755) in Bons Sinais estuary

- Laurentino Rui Gumanhiua. 2021. Estimativa dos tamanhos de captura por arte de pesca do Caranguejo de mangal. (*Scylla serrata* Forskal 1755), capturado pela pesca artesanal no estuário dos bons sinais. Tese de licenciatura em Biologia Marinha. Escola Superior de Ciências Marinhas e Costeiras, Universidade Eduardo Mondlane, Mozambique Quelimane (Bachelor 4-year-degree; Supervisor: Bonifácio Carlitos Manuessa & Francisco Leitão)

English title: Estimation of mangrove crab catch sizes caught in artisanal fishing in the Good Sign Estuary (*Scylla serrata* Forskal 1755).

- Piargy de Maria Patrício Afonso. 2021. Estudo do comportamento alimentar do caranguejo de mangal (*Scylla serrata* Forskal 1775), acessível a pesca artesanal, no estuário de Bons Sinais, província da Zambézia. Tese de licenciatura em Biologia Marinha. Escola Superior de Ciências Marinhas e Costeiras, Universidade Eduardo Mondlane,

Mozambique Quelimane (Bachelor 4-year-degree; Supervisor: Bonifácio Carlitos Manuessa & Francisco Leitão)

English title: Study of the feeding behavior of the mangrove crab (*Scylla serrata* Forskal 1775), accessible to artisanal fisheries, in the Bons Sinais estuary, Zambézia province

- Arcénia da Piedade Zefanias Chivale. 2021. Estrutura da população e aspetos reprodutivos de treze espécies de peixe capturados pela pesca artesanal no estuário dos Bons Sinais, Zambézia. Tese de licenciatura em Biologia Marinha. Escola Superior de Ciências Marinhas e Costeiras, Universidade Eduardo Mondlane, Mozambique Quelimane (Bachelor 4-year-degree; Jeremias Mocuba & Francisco Leitão)

English title: Population structure and reproductive aspects of thirteen fish species produced by artisanal fisheries in Bons Sinais, Zambézia

- Mirena Nhaca. 2021. Distribuição e abundância da Ictiofauna do estuário dos Bons Sinais, Zambézia. Tese de licenciatura em Biologia Marinha. Escola Superior de Ciências Marinhas e Costeiras, Universidade Eduardo Mondlane, Mozambique Quelimane (Bachelor 4-year-degree; Supervisor: Jeremias Mocuba & Francisco Leitão)

English title: Ichthyofauna distribution and abundance of the Bons Sinais estuary, Quelimane-Mozambique

- Célia José Mause. 2021. Estudo preliminar da biologia de *Otolithes ruber*, *Johnius dussumieri* e *Johnius amblycephalus* no estuário dos Bons Sinais, Zambézia. Tese de licenciatura em Biologia Marinha. Escola Superior de Ciências Marinhas e Costeiras, Universidade Eduardo Mondlane, Mozambique Quelimane (Bachelor 4-year-degree; Supervisor: Jeremias Mocuba & Francisco Leitão)

English title: Preliminary study of the biology of *Otolithes ruber*, *Johnius dussumieri* and *Johnius amblycephalus* in the Bons Sinais estuary, Zambézia

- José Rui Ferreira Picoto Carneiro. 2019. Biological characterization of commercial invertebrate and fish species off Portuguese Coast. Experimental work in Marine Biology (3ECTs)
- Martyna Plewniak. 2018. Ecological status of water bodies of the Algarve region based on macrofauna communities. Traineeship Agreement signed by Univ. of Gdańsk and the CCMAR (4 months traineeship-internship)
- Davide Morais Araújo. 2018. Biologia reprodutiva de caranguejo verde (*Carcinus maenas*); análise de dados aéreos de cavalete (*Uca tangeri*). Experimental work in Marine Biology (3ECTs)
- María Nieves Cuesta Segura. 2018. certificate of stage Mobility plan | integral program of qualification and employment. European Grant found. Advance

professionalization (within CCMAR and public Governmental entities protocol, FL was the Scientific supervisor).

- Loann Brozzetti 2018. Internships B. Sc. in Biology or Marine Biology from University of La Rochelle (ULR), France (FL Scientific supervisor).
- Filipa Braga. 2009. Efeitos dos pulsos de água doce na qualidade da água e na comunidade de macroinvertebrados bentónicos na ribeira do Vascão. 16p University of Algarve, FCT (20-September).

English title: The effect of superficial water pulses over the water quality in Vascão stream. Freshwater benthic communities as bio-indicators (Marine Biology course)

- Sofia Gigante. 2009. Efeito dos pulsos de água doce nas comunidades de macroinvertebrados bentónicos de ribeiras do Algarve. 15p. University of Algarve, FCT (20-September).

English title: The effect of superficial water pulses over stream macroinvertebrates in Algarve region (South Portugal). (Marine Biology course)

- Alexia. G. 2011. Efeito da descarga de água doce subterrâneas sobre os Macroinvertebrados de substratos rochosos nas zonas costeiras. (Marine Biology course)

English title: Effect of costal groundwater discharges over coastal rocky benthic communities (ongoing)

- Matos, A. 2011. Efeito da descarga de águas subterrâneas nas comunidades de macrofauna bentónica arenosa da zona costeira (análises multivariadas). Experimental Work in Marine Biology.

English title: Effect of submarine groundwater discharges over coastal sandy benthic communities – Multivariate analysis (Marine Biology course)

- Vitali Bakun. 2012. Working with remote sensed oceanographic data (Marine Biology course, Experimental Work).

6.1 Academic proves Juri (by Invitation)

Juri of PhDs

Miguel Tiago Cantiga Lopes de Oliveira. 2016. The role of artificial reefs to promote biodiversity and sustainability of the Ecotourism in Cape Verde: Ecological, Biological and management aspects (main arguing, Invited by University of Algarve scientific Council). Degree of Philosophy in Marine and Environmental Sciences, Speciality in Marine Biodiversity. University of Algarve, Faculty of Sciences and Technology (30 September 2016)

Vânia Baptista (SFRH/BD/104209/2014): Influence of oceanography and larvae behavior on recruitment of temperate fishes: The importance of physics–biology links to manage fisheries at a local scale. Degree of Philosophy in Marine and Environmental Sciences, Speciality in Marine Biology. Faculdade de Ciências e Tecnologia da University of Algarve (31 October 2019).

Masters degree evaluation panel (9):

- Isa Máximo. 2009. Avaliação da qualidade da água das ribeiras do Algarve: uso de macroinvertebrados bentónicos como bioindicadores. Dissertação para a obtenção do grau de Mestre em Biologia Marinha, Especialização em Ecologia e Conservação Marinha. University of Algarve, 50p. FCT, University of Algarve (04-December).

English title: Evaluation of water quality in Algarve watershed: using benthic communities (macroinvertebrates) as bioindicators.

- Rute Brito. 2011. Influência de descargas de água subterrânea na concentração de nutrientes e comunidades planctónicas do sapal de Castro Marim, Vila Real de Santo António (Portugal). Mestre em Biologia Marinha, Especialização em Ecologia e Conservação Marinha. University of Algarve, 89p. FCT, University of Algarve (14-October).

English title: The effect of submarine groundwater discharges over chemical nutrients concentration and planktonic communities in Guadiana saltmarsh estuarine systems.

- Hadayet Ullah. 2012. Establishing relationships between climatic variables and coastal fisheries of Portugal. Master thesis submitted for the fulfilment of the title of Master of Science in Ecohydrology (within the ERASMUS MUNDUS Master programme ECOHYD). FCT, University of Algarve, 89p. FCT, University of Algarve (6-September).

LINK: <http://hdl.handle.net/10400.1/5977>

- Rosemary Masikini 2012. Spatial Variability Of Macroinvertebrate Assemblages And The Influence Of Hydrology And Environmental Variables Along The Sigi River, Tanzania- East Africa. Master thesis submitted for the fulfilment of the title of Master of Science in Ecohydrology (within the ERASMUS MUNDUS Master programme ECOHYD). FCT, University of Algarve, 58p. FCT, University of Algarve (1-October).

Link: https://sapientia.ualg.pt/bitstream/10400.1/5984/1/Macroinvertebrate%20assemblages_master%20thesis.pdf

- Vânia Baptista. 2012. Impacts of environmental changes on bivalves harvesting in Portuguese coast. Dissertação de Candidatura ao grau de Mestre em Ciências do Mar

- Recursos Marinhos Especialidade em Biologia e Ecologia Marinhas submetida ao Instituto de Ciências Biomédicas Abel Salazar da Universidade do Porto.(20 - Dezembro 2012).
- Viola Alms. 2013. A multi-model approach to analyse environmental effects on small (*Sardina pilchardus*) and medium (*Scomber scombrus*) pelagic fish species along the Portuguese coast. Master of Science in Marine Biodiversity and Conservation. ERASMUS MUNDUS Master Programme EMBC. June 2013. 73p.(26 June 2013)
- Pedro Munoz Exposito. 2015. “Assessing the atmospheric oscillations effects on the biology of the bullet tuna (*Auxis rochei*) and its possible linkage with global warning”. Master in Marine Biology, University of Algarve (27 November 2015)
- Domingas Domyquia: Ecologia alimentar, Idade e crescimento, aspectos reprodutivos e relações morfométricas da *Sardinella aurita* (Valenciennes, 1847) e *Sardinella maderensis* (Lowe, 1838) na costa sul de Angola”. Master in Marine Biology, University of Algarve (12 November 2015).
- Suzana João da Conceição Nicolau: Caracterização da Macrofauna Bentónica da Baía de Luanda- Angola. Master in Marine Biology, University of Algarve (15 september 2016)
- Georg T. 2020. Links between climate and the upper ocean structure: the Canary current upwelling system case. Master in Marine and Coastal Systems. University of Algarve, Campus Gambelas. 02 of December 2020. (Main arguing)

Licenciatura/Bachelor

- Maria Helena Couto Almeida. 2020. “Sazonalidade da ocorrência dos estágios larvares da comunidade de braquiúros na Ria de Aveiro, Estuário do Rio Sado e Ria Formosa”. Relatório final da UC Estágio, integrada no 3º ano da licenciatura de Biologia. 49pp
English title: Seasonality of the occurrence of brachyura larval stages community in the Ria de Aveiro, Sado River Estuary and Ria Formosa (Bachelor)

7. Conferences, seminar, workshops, advance courses organization and/or lectured:

Workshops organization and/or lecture

- 2022** - Workshop organization & lecture. Auditório da Junta de Freguesia de Gâmbia-Pontes-Alto da Guerra. Gâmbia, March 5th. Climate-Fishing Conversations: Adaptation of Portugal's fisheries to climate change. Main Goal: i) Increase climatic literacy, ii) divulgate ongoing CC effects on fisheries under scientific projects carried out, iii) Participative discussion: identify and discuss management adaptation measures for the fishery under climate change projections

- 2022** - Workshop organization & lecture. **Apara-associação Pesca Artesanal Região De Aveiro**. Sala Coutinho de Lima, Edifício sede Porto de Aveiro. Aveiro, March 11th. Climate-Fishing Conversations: Adaptation of Portugal's fisheries to climate change. Main Goal: i) Increase climatic literacy, ii) divulgate ongoing CC effects on fisheries under scientific projects carried out, iii) Participative discussion: identify and discuss management adaptation measures for the fishery under climate change projections
- 2022** - Workshop organization & lecture. **Vianapesca -O.P.-Cooperativa de Produtores de Peixe de Viana do Castelo Crl**. Sala For-Mar, Av. do Atântico, Viana do Castelo. Viana do Castelo, March 12th. Climate-Fishing Conversations: Adaptation of Portugal's fisheries to climate change. Main Goal: i) Increase climatic literacy, ii) divulgate ongoing CC effects on fisheries under scientific projects carried out, iii) Participative discussion: identify and discuss management adaptation measures for the fishery under climate change projections
- 2022** - Workshop organization & lecture. **AAPCS-Associação dos Armadores de Pesca Locale Artesanal do Centro e Sul**. Porto de Pesca de Sesimbra. Sesimbra, March 26th. Climate-Fishing Conversations: Adaptation of Portugal's fisheries to climate change. Main Goal: i) Increase climatic literacy, ii) divulgate ongoing CC effects on fisheries under scientific projects carried out, iii) Participative discussion: identify and discuss management adaptation measures for the fishery under climate change projections
- 2022** - Workshop organization & lecture. **OLHAOPESCA** - Biblioteca Municipal José Mariano Gago, Olhão. Olhão, April 2nd. Climate-Fishing Conversations: Adaptation of Portugal's fisheries to climate change. Main Goal: i) Increase climatic literacy, ii) divulgate ongoing CC effects on fisheries under scientific projects carried out, iii) Participative discussion: identify and discuss management adaptation measures for the fishery under climate change projections
- 2022** – Workshop organization & lecture. **OPCENTRO** – Porto de Pesca de Peniche. Peniche 28 February. Climate-Fishing Conversations: Adaptation of Portugal's fisheries to climate change. Main Goal: i) Increase climatic literacy, ii) divulgate ongoing CC effects on fisheries under scientific projects carried out, iii) Participative discussion: identify and discuss management adaptation measures for the fishery under climate change projections
- 2022** – Workshop organization & lecture. **Associação de Pescadores Profissionais de Alvor & ARMALRGARVE polvo**. 19 February. Climate-Fishing Conversations: Adaptation of Portugal's fisheries to climate change. Main Goal: i) Increase climatic literacy, ii) divulgate ongoing CC effects on fisheries under scientific projects carried out, iii) Participative discussion: identify and discuss management adaptation measures for the fishery under climate change projections
- 2022** – Workshop organization & lecture. **Associação De Armadores De Pesca De Sagres**. Centro de Interpretação da Lota de Sagres. Sagres 12 February. Climate-Fishing Conversations: Adaptation of Portugal's fisheries to climate change. Main Goal: i) Increase climatic literacy, ii) divulgate ongoing CC effects on fisheries under

scientific projects carried out, iii) Participative discussion: identify and discuss management adaptation measures for the fishery under climate change projections

2018 - Workshop organization & lecture: How to collect scientific data onboard octopus fishing vessels for evaluate the role of crab as a bait. Target audience: Algarve fishermen's (representative of the fishermen organizations; N=8). University of Algarve 16 of October 2018.

Link: <https://crustapanha.eu/reuniao-na-universidade-do-algarve-16-de-outubro-de-2018/>

Advanced Courses organization and/or lecture

2021 - Leitão 2021. Advance course on artificial reefs (organization and lecture). São Tomé 12-14 April 2021.

Link: <https://www.programatato.org/post/recifes-artificiais-em-s%C3%A3o-tom%C3%A9-budo-ki%C3%A1>

2021 - Statistic course organization: statistics for fisheries biology (BIOFISH - QoL) Capacity building Action 2. Escola Superior de Ciências Marinhas e Costeiras (Universidade Eduardo Mondlane). Duration 24h (organization). <https://www.ccmар.ualg.pt/en/news/biofish-qol-project-organized-course-statistics-applied-fisheries-biology-held-quelimane>

2020 - Traineeship: “Intensive course on niche ecological maps”. Centre of Marine Science – University of Algarve, 20-24 January 2020 (45 hours). Lectured by Prof. Dr. Fernando Cánovas, ‘Universidad Cattolica de Murcia, UCAM’ (workshop organization)

2020 - Stock Assessment With Generalized Depletion Models Combined With Population Dynamics Models (course Organization). CCMAR - Centre of Marine Science (university of Algarve):

Link: <https://www.ccmар.ualg.pt/advanced-tech-training/stock-assessment-generalized-depletion-models-combined-population-dynamics>

2020 - Advance course: “Intensive course on niche ecological maps”. Centre of Marine Science – University of Algarve, 20-24 January 2020 (45 hours). Lectured by Prof. Dr. Fernando Cánovas, ‘Universidad Catolica de Murcia, UCAM’

2020 – *Introduction to databases in Excel* (Lecture: Prof. Francisco Leitão). from 28 e 29 de julho within the capacity formation plan of LUANDAWATERFRONT project and institutional cooperation among University of Algarve, CCMAR and Maputo, Angola, Fisheries and Marine Research Institute.

“Introdução às Bases de Dados em Excel”, no âmbito do projeto LUANDAWATERFRONT, organizado por: Universidade do Algarve, Centro de Ciências do Mar (CCMAR) e Instituto de Investigação Pesqueira e Marinha (INIPM), realizado entre 28 e 29 de julho de 2020, via Zoom (plataforma online). O curso teve duração de 10 horas.

2020 – Advance course Scientific organization: Stock Assessment With Generalized Depletion Models Combined With Population Dynamics Models. Centre of Marine Science – University of Algarve, 9-12 March 2020 (28 hours)

2019 – Advance course: **Leitão F.** Biological Sampling (experimental design) and data treatment in ecology. “BIOFISH – QoL – Capacity building Action 1”. School of Marine and Coastal Sciences (Eduardo Mondlane University), Quelimane, Zambézia-Moçambique (hours:16). 25 February 2019 (organization and lecture).

Link: <https://biofishqol.eu/new-events/>

2019 – Advance course: **Leitão F.** Biological Sampling (experimental design) and data treatment in ecology. “BIOFISH – QoL – Capacity building Action 1”. School of Marine and Coastal Sciences (Eduardo Mondlane University), Quelimane, Zambézia-Moçambique (hours:8). 25 February 2015 (organization and lecture)

2013 - Chícharo, M.A.A.T, Leitão F, Range, P, (2013) 4th Regional Meeting of Voluntary Environmental Activities for Water – Benthic Macroinvertebrates - Short-course for secondary school teachers, Tavira, Portugal, 15 and 16 November 2013. (organization and lecture)

2012 - Leitão F, Range, P, Marilia, 2014. Using macroinvertebrates to assess water quality – Ecological environmental status – Workshop within “national meeting of biologist students”. 17th meeting of biology students. University of Algarve. Portugal, 11 and 15 April 2014.(<http://www.eneb2014.pt/#>)(organization and lecture)

2011 –At CCMR - Centre of Marine Science (university of Algarve): Practical ecological modelling and analysis for coastal and marine management (course Organization)

Link: <https://www.ccmr.ualg.pt/en/activity/practical-ecological-modelling-and-analysis-coastal-and-marine-management>

2011 - Advanced course: **Leitão F.** Roberts J. (Duke University) Practical ecological modelling and analysis for coastal and marine management 11-13 July. Lectured by Dr. Jason Roberts (Duke University) in University of Algarve (21 hours) (organization and lecture)

Conference Organization

2022 - Alexandra Teodósio, Ester Serrão, **Francisco Leitão**, Vânia Baptista (Organizers): 2022 UN Ocean Conference; virtual side event: Marine Africa: the role in excellence in capacity building to increase globally ocean health and quality of life (Virtual SIDE Event) ID: OBZB53 30 June the event. 27 June to 1 July 2022, in Lisbon, Portugal.

Description: Collaborative actions in Marine conservation and Blue growth -Science and Education- University of Algarve – UAlg (Portugal) & African and European Partners to a commitment -Ocean Future sustainability at global scale

8. Specialization areas

- **General scientific skills** - project management, report writing and presentation skills
- **Relational Data Bases:** MySQL user language, MSACCESS
- **Climatic effects on fishery resources:** Oceanography, Hydrology (at a basin scale) and fishing effects on marine resources and marine ecosystems/ecology
- **Bio statistical and fisheries analysis; experimental design (high expertise on statistical data treatment)** - univariate and multivariate statistics; time series analysis (linear and non-linear estimation); Geo-Statistical analysis; stock assessment analyses (R-language link to Brodgar plataform; SPSS; Statistics, FISAT; CLIMPROD etc); population dynamics; ARIMA/ARIMAX. Fisheries Catch Dynamic Models, Stock assessment (FISAT etc)
- **Fisheries Biology** – identification and sampling (age; growth, reproduction) of Cephalopoda, Crustacean, Bivalvia and Fish (bony fish and Elasmobranchia)
- **Fishing gears technology** – Efficiency and selectivity of dredges, gill-trammel net; gear design
- **Fisheries and benthic Ecology** – Impact of fishing gears on macrofauna communities, environment-fish relationships
- **General Ecology** – Macroinvertebrates as biological indicators of freshwater, transitional and coastal waters, accordingly water frame directive (WFD) and “new” marine policy strategy
- **GIS** – data mining and predictive modelling using ARCGIS advanced tools such as MGET tool (FEET tool) in ARCToolbox (ability to design with Query Building allowing multiple repeated routines); using R- tools in GIS environmental – spatial analyst (GAM; GLM; Decision trees; Euclidian distances etc...)
- **Web Design** – Advance course on Photoshop CS2; Macromedia dreamweaver 8; Macromedia Flash 8
- **Laboratory techniques** – Preservation, sampling and identification of benthic fauna, flora and fish.
- **SCUBA diving** – Sampling, visual census (benthic communities and fish assemblages), photography and video recording (more than 800 dives)

9. Languages

Portuguese: Full domain

English: Understanding and speaking (Excellent); Writing (very good)

Spanish: Understanding and speaking (good); Reading (good)

French: understanding (good) and speaking (moderate) and reading

10. Computer software knowledge

General use: MS environment (Excel, Word, PowerPoint, Access and Internet)

- Fisheries modelling (statistical analyses of data collected for the assessment of commercial fisheries): FISAT; Share Each Length Total Catch (SELECT) by ICES (International Commission for the Exploration of the Sea); CLIMPROD (environmental-fisheries stock assessment relationships by FAO);
- Data Bases (MySQL; MSACCESS; UBUNTO; PhP myADMYN)
- Modelling and statistics programs (provide analytical and advisory support on the assessment of marine fisheries – time series analyses and interpretation of biological data and fisheries statistics): *Statistica V.10*; *Sigma-Stat*, *Minitab 12*; SPSS 20 for windows. Brodgar (uses R- packages); R-software; PRIMER –for ecological data analyses;
- Image Software: Photoshop CS2 and others
- GIS (Geographic information Systems) – QGIS; ArcView 10 with extensions for Analysis and classification of satellite images

11. Publications

11.1 Thesis

- **Leitão, F. (2009).** Ictiofauna e ecologia trófica nos recifes artificiais do Algarve: implicações para as pescarias locais

English Title: Algarve artificial reefs fish assemblages and trophic ecology: implications for the local near shore fisheries. PhD thesis. University of Algarve, Faro. 194p. (<https://sapientia.ualg.pt/handle/10400.1/332?mode=full>). DOI: 10.13140/RG.2.2.17127.39844

- **Leitão, F. (2003).** “Estudo comparativo da mortalidade induzida pela faca de mariscar e draga de mão na comunidade macrobentónica associada aos bancos de pesca do berbigão (*Cerastoderma edule*, L. 1758)”. Master thesis, University of Coimbra. 95p. DOI: 10.13140/RG.2.2.35792.05122

English Title: “A comparative study to assess the effect of intertidal non-mechanised cockle harvesting on macrobenthic communities”.

- **Leitão, F. (1999)**. “Estudo da selectividade da ganchorra utilizada na zona Ocidental Norte para a captura de amêijoas-brancas (*Spisula solida*, Linnaeus 1758 e *Spisula elliptica*, Brow, 1827). Efeito induzido pela arte na macrofauna bentónica (mortalidade indirecta)”. Algarve University, Faro. 64p. DOI: 10.13140/RG.2.2.19014.83523

English Title: “Size selectivity of the *Spisula solida* dredge in relation to tooth spacing and mesh size: Influence of mesh size and tooth spacing on the proportion of damaged organisms.”

11.2 Articles in per review journals

Submitted papers:

Monteiro J.N, Bueno-Pardo J, Pinto M, Pardal M.A, Martinho F, Leitão F. 2022. More and smaller crabs: implications of warming on the morphometric and reproductive traits of *Carcinus maenas* (Submitted to: Marine Ecology Progress Series: major changes)

Macuba J, Costa E.F.S, Mualeque D.O, Teodósio A.M. Leitão F*. 2022. Assessing complementary fishing gears for ichthyofauna monitoring in a tropical estuary. Reviews in Fish Biology and Fisheries (under review)

Manuessa B, Borges T.C, Teodósio A.M. Leitão F*. 2022. Socio-economic importance of the small-scale mud crab fishing (*Scylla serrata*, Forskall 1775) in the Bons Sinais estuary – Mozambique. Fisheries Research (under review)

Marta Albo-Puigserver, Juan Bueno-Pardo, Miguel Pinto, João N. Monteiro, Andreia Ovelheiro, Maria A. Teodósio, Francisco Leitão*. Ecological Sensitivity and Vulnerability of fishing fleet landings to climate change across regions (Submitted to: Scientific Reports; under review)

Baptista, V., Juan Bueno-Pardo., Blasco. N.P., Maria Alexandra Teodosio, **Leitão, F***. Environmental variability and fishing effects on artisanal commercial flatfish fisheries along the Portuguese coast. (Submitted to: Front. Mar. Sci. - Marine Fisheries, Aquaculture and Living Resources: major changes)

Papers Published (* corresponding/leader author)

69. Monteiro JN, Ovelheiro A, Ventaneira AM, Vieira V, Teodósio MA, **Leitão F**. 2022. Variability in *Carcinus maenas* Fecundity Along Lagoons and Estuaries of the Portuguese Coast. Estuaries and Coasts, 1-12. DOI: <https://doi.org/10.1007/s12237-021-01035-9>

68. **Leitão F***, Ureta R-H, Cánovas F. 2020. 'Editorial': Vulnerability of Fisheries to Climate Change. *Frontiers in Marine Science*. doi: 10.3389/fmars.2020.61379369.
67. **Leitão F.**, Pardo JB, Ovelheiro A, Monteiro JN, Nobre D, Teodósio A.M. (2021). Effect of bait type on the octopus fishery in Algarve, Southern Portugal. *Ocean and Coastal Management*. 14. 105587. DOI: 10.1016/j.ocecoaman.2021.105587 (IF: 2.482)
66. Bueno-Pardo J, Nobre D., Monteiro JN, Sousa P, Costa EFS, Baptista V, Ovelheiro A, Vieira VMNCS, Chícharo L, Gaspar M, Erzini K, Kay S, Queiroga H, Teodósio MA, **Leitão F.** 2021. Climate change vulnerability assessment of the main marine commercial fish and invertebrates of Portugal. *Scientific Reports* 11, Article number: 2958 ; <https://doi.org/10.1038/s41598-021-82595-5>.
65. Costa EFS, Mocuba J, Oliveira D, Teodósio MA, **Leitão F***. 2020. Biological aspects of fish species from subsistence fisheries in “Bons Sinais” estuary, Mozambique. *Regional Studies in Marine Science* 39, 101438
64. Martins, M., Carreiro-Silva, M., Martins, G.M., Barcelos E Ramos, J., Viveiros, F., Couto, R.P., Parra, H., Monteiro, J., Gallo, F., Silva, C., Teodósio, A., Guilini, K., Hall-Spencer, J.M., **Leitão, F.**, Chícharo, L., Range, P. (2021) - *Ervilia Castanea* (Mollusca, Bivalvia) Populations Adversely Affected At Co2 Seeps In The North Atlantic. *Science Of The Total Environment*, 142044, Doi: 10.1016/J.Scitotenv.2020.142044
63. Vieira VM, Mateus M, Canelas R, **Leitão F.** 2020. The FuGas 2.5 Updated for the Effects of Surface Turbulence on the Transfer Velocity of Gases at the Atmosphere–Ocean Interface. *Journal of Marine Science and Engineering* 8 (6), 435. <https://doi.org/10.3390/jmse8060435>
62. Encarnação J, Seyer T, Teodósio MA, **Leitão F.** 2020. First Record of the Nudibranch *Tenellia adspersa* (Nordmann, 1845) in Portugal, Associated with the Invasive Hydrozoan *Cordylophora caspia* (Pallas, 1771). *Diversity* 12 (6), 214
61. Baptista V, Carere C, Morais P, Cruz J, Cerveira I, Castanho S, Ribeiro L, Pousão-Ferreira P, **Leitão F**, Teodósio MA. 2020. Do consistent individual differences in temperate and pelagic fish larval behavior affect recruitment in nursery habitats? *Behavioral Ecology and Sociobiology*. 74. <https://doi.org/10.1007/s00265-020-02841-0>
60. Bueno-Pardo J., Pierce G.J., Cabecinha E., Grilo C., Assis J., Valavani V., Pita C., Dubert J., **Leitão F**, Queiroga H. 2020. Trends and drivers of marine fish landings in Portugal since its entrance in the European Union. *ICES Journal of Marine Science*. 7: 988-1001. DOI: <https://doi.org/10.1093/icesjms/fsaa010>
59. Baptista V, **Leitão F**, Morais P, Teodósio MA, Wolanski E. 2019. Modelling the ingress of a temperate fish larva into a nursery coastal lagoon. *Estuarine, Coastal and Shelf Science*. 235. 106601. <https://doi.org/10.1016/j.ecss.2020.106601>

58. Baptista V, Morais P, Cruz J, Castanho S, Ribeiro L, Pousão-Ferreira P, **Leitão F**, Wolanski E, Teodósio MA. 2019. Swimming abilities of temperate pelagic fish larvae prove that they may control their dispersion in coastal areas. *Diversity* 11(10), 185; <https://doi.org/10.3390/d11100185>
57. Ruben Roa Ureta, Santos M.N, **Leitão, F***. 2019. Modelling long-term fisheries data to resolve the attraction versus production dilemma of artificial reefs. *Ecological Modelling*. 407. 108727. <https://doi.org/10.1016/j.ecolmodel.2019.108727>
56. **Leitão F***. 2019. Mean Size of the landed Catch: a fishery community index for trend assessment in exploited marine ecosystems. *Frontiers in Marine Science*; [https://doi: 10.3389/fmars.2019.00302](https://doi.org/10.3389/fmars.2019.00302)
55. Tiller R, Arenas F, Galdies C, **Leitão F**, Malej A, Romera B M, Solidoro C, Stojanov R, Tur V, Guerra R. 2019. Who cares about ocean acidification in the Plasticene? *Ocean & Coastal Management* <https://doi.org/10.1016/j.ocecoaman.2019.03.020>
54. Manuessa B, Morais EP, Borges TC, Teodósio MA, **Leitão F***. 2018. First assessment of *Thryssa vitrirostris* (Engraulidae) beach seine fishery in Northeastern Mozambique. *J – Multidisciplinary Scientific Journal*. 1: 116-132; doi:10.3390/j1010012MDPI.
53. Cruz J, Morais P, Mocuba J.J, Baptista V, Cerveira I, Pereira V, Valente M.S, Leitão F, Maria Teodósio A. 2019. The inevitable invasion of Portuguese estuarine ecosystems by the ctenophore *Mnemiopsis leidyi* A. Agassiz 1865. *BioInvasions* (in press).
52. **Leitão F***, Baptista V, Vieira V. Laginha PS, Relvas P. Teodósio A. 2018. A 60 years time series analyses of the upwelling along the Portuguese coast. *Water*, 11, 1285; doi:10.3390/w11061285
51. **Leitão F***, Maharaj R, Vieira V, Teodósio A, Cheung WWL. 2018. The effect of regional sea surface temperature rise on fisheries. *Aquatic Conservation: Marine and Freshwater ecosystems*. 28(6) 351-1359 (IF: 3.2) DOI: 10.1002/aqc.2947
50. Sroczynska K., **Leitão F.**, Máximo I., Range P., Furtado A., Claro M., Chicharo L. 2019. Independent effects of habitat and stream typology on macroinvertebrate communities and water quality index in Mediterranean-type intermittent streams. *Limnology*. DOI: 10.23818/limn.38.31
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***1 . O Ministério da Educação de Angola Não permite a divulgação destes Manuais (ver anexo digital com página apresentação em pasta Anexa – Manuais desenvolvidos para curso de Aquicultura e Pescas, que não pode ser divulgado em nenhuma circunstância a não ser para fins de utilização deste concurso)**

Books

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3. Cancela da Fonseca, L., Pereira, P., Gaspar, M.B., Moura, A., Carvalho, S., **Leitão, F.**, 2002. Sedimentary environment and macrozoobenthos of the Óbidos Lagoon (western Portugal). XII Simpósio Ibérico de Estudios del Bentos Marino, Gibraltar, 22-25 de Outubro de 2002: 45-46.
2. **Leitão, F.M.S.**, M.N Santos, Monteiro, C.C., 2003. Importance of the Algarve artificial reefs (Southern Portugal) in the feeding diet of *Diplodus sargus* (L. 1758): preliminary results. Threats: Marine Biodiversity. *EMBS38- 38th European Marine Biology Symposium*”, 8 – 12 Setembro 2003: 227.
1. Gaspar M.B., **Leitão F.**, Santos M.N., Chícharo L., Dias M.D., Chícharo M.A., Monteiro C.C. 2003. Influence of dredge efficiency and selectivity on macrobenthic mortality. EMBS38- 38th European Marine Biology Symposium”, 8 – 12 September 2003. Management and Conservation.

11.7 Oral presentations/communications

53. **Leitão F.** 2022. Impactos das alterações climáticas na pesca em Portugal. Workshop sobre “Desafios para a pesca e aquacultura: Como podemos assegurar maior sustentabilidade considerando o desafio das alterações climáticas? Projeto projeto NEPTUNUS. 6 julho 2022, Instituto Portugues do Mar e Atmosfera (IPMA) – Instituto das Pescas e do MAR (IPIMAR) (invited speaker).

English: Impacts of climate change on fisheries in Portugal. Workshop on “Challenges for fisheries and aquaculture: How can we ensure greater sustainability considering the challenge of climate change? Project NEPTUNUS project. Olhão 6 July 2022, Portuguese Institute of the Sea and Atmosphere (IPMA) – Institute of Fisheries and the SEA (IPIMAR) (invited speaker).

52. Manuessa B, Borges RC, **Leitão F.** 2022. Socio-economic importance of small-scale mud crab fishing in the Bons Sinais estuary (Mozambique). 2022 UN Ocean Conference - Virtual side events: Marine Africa: the role in excellence in capacity building to increase globally ocean health and quality of life.
51. **Leitão F.** 2022. BIOFISH-QoL – Bons Sinais estuary (Mozambique): fisheries and quality of life. 2022 UN Ocean Conference - Virtual side events: Marine Africa: the role in excellence in capacity building to increase globally ocean health and quality of life.
50. Monteiro JN, Roa-Ureta RH, Ovelheiro A, Teodósio MA, **Leitão F.** 2022. Characterization of the European green crab fisheries in the Portuguese coast: n important small-scale socioeconomic fishery. Submitted: 4TH WORLD SMALL-SCALE FIERIES CONGRESS SERIES - EUROPE, MALTA, September. (submitted)
49. Monteiro JN, Roa-Ureta RH, Ovelheiro A, Teodósio MA, **Leitão F.** 2022. Population dynamics, reproductive and growth aspect of the European green crab along estuaries and lagoons of the Portuguese Coast. Submitted: ICES ANNUAL SCIENCE CONFERENCE 2022 IRELAND. September. (submitted)
48. Pinto M, Albo-Puigserver M, Bueno-Pardo J, Teodósio M.A, **Leitão F.** 2022 Socio-economic vulnerability assessment of Portuguese fisheries to climate change. ICES ANNUAL SCIENCE CONFERENCE 2022 (submitted)
47. **Leitão F,** Bueno-Pardo J, Albo-Puigserver M, Cánovas F, Pinto M, Teodósio M.A. 2022 An ecological assessment to determine Vulnerability of the Portuguese Fisheries to climate change. Submitted: ICES ANNUAL SCIENCE CONFERENCE 2022 (submitted)
46. Monteiro JN, Bueno-Pardo J, Pinto M, Pardal M, Martinho F, **Leitão F.** 2022. More and smaller crabs: Implications of warming on the morphometric and reproductive traits of *Carcinus maenas*. Vídeo-Poster: XI CBC – THE CRUSTACEAN SOCIETY SUMMER MEETING 2022 BRAZIL. JUNE 2022 (acceptable for presentation).
45. Monteiro JN, Ovelheiro A, Ventaneira AM, Viera V, Teodósio MA, **Leitão F,**2022. Variability in *Carcinus maenas* fecundity along lagoons and estuaries of the Portuguese Coast. Oral Presentation: FOURTH ICES PICES EARLY CAREER SCIENTIST CONFERENCE, CANADA. JULY 2022. (acceptable for presentation).

44. Monteiro, J.N., Bueno-Pardo, J., Pardal, M., Martinho, F., **Leitão, F.** Efeito da temperatura na reprodução e morfometria de *Carcinus maenas*. 1-4 Dezembro 2021, 20º Encontro Nacional de Ecologia, Ponte de Lima.

English: Effect of temperature on reproduction and morphometry of *Carcinus maenas*

43. **Leitão F**, Puibiserver M.A, Pinto M, Pardo J, Cánovas F, Ito P, Teodósio A. 2021. Webinar: Efeito das alterações climáticas na pesca em Portugal. 7 December. Invited by SCIAENA ONG. Link: <https://youtu.be/TcQ6h8eM7Pk>

English: Impact of climate change in Portuguese Fisheries (INVITED by SCIAENA)

42. Albo-Puigserver, M., Bueno-Pardo, J., Pinto, M., Monteiro, J.N., Ovelheiro, A., Teodósio, M.A., **Leitão, F.** Ecological Sensitivity and Vulnerability of the Landings in Portuguese Fisheries: species prioritization for adaptation Plans. IMBIZO 6, Workshop 3: Ocean Governance and climate adaptation: comparing responses, charting future courses. 18-22 October 2021, IMBER.

Link: <https://imber.info/imbizo-6-recordings-workshop-3/>

41. Monteiro J.N, Ovelheiro A, Ventaneira AM, Vieira V, Teodósio MA, **Leitão F.** Variability in *Carcinus maenas* fecundity along lagoons and estuaries of the Portuguese Coast. ICYMARE - International Conference for YOUNG Marine Researchers. 2021 Berlin 21-24 September 2021

40. **Leitão F**, Puibiserver M-A; Pinto M, Ovelheiro A, Monteiro J, Sordo L, Pardo J, Teodósio A. 2021 (Invited by Olhão Mayor/County). As alterações climáticas e a Pesca em Portugal. Dia do Pescador: Olhão 29 de Maio de 2021. Auditório da câmara de Olhão. Sessão subordinada às **alterações climáticas e a pesca em Portugal**.

Link: <https://www.facebook.com/cmolphao/videos/489651438957684>

English: Climate change and fisheries in Portugal. Presentation made within celebration of the fishermen day at Olhão to fishermen community.

39. **Leitão F.** 2020. Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique) “BIOFISH – QoL. November 5, 2020. Encontro Ciência 2020. “Science and technology summit in Portugal”. Lisbon (INVITED by FCT, with the presence of FCT president and AKDN representant)

38. **Leitão F.** 2020. Vulnerabilidade das pescas às alterações climáticas. *IN* Seminário: “Alterações climáticas e recursos marinhos: passado, presente e futuro”. IPMA - Instituto Português do Mar e do Ambiente (INVITED within CERES-IPMA co-joint action project) Lisbon 26 February 2020.

English: **Leitão F.** 2020. Vulnerability of fisheries to climate change. *IN Seminar*: “Climate change and marine resources: past, present and future”. Portuguese Institute of the Sea and the Environment – IPIMAR (INVITED within CERES-IPMA co-joint action project) Lisbon 26 February 2020.

Link:

<https://www.ipma.pt/pt/media/noticias/news.detail.jsp?f=/pt/media/noticias/arquivo/2020/seminario-2602.html>

https://www.ipma.pt/pt/media/noticias/documentos/2020/Agenda_Seminario_CC_IPMA_-_CERES_-_Alteraxes_climaticas_26_fevereiro_2020_1.pdf

37. **Leitão F.** Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique) “BIOFISH – QoL. July 8, 2019. Encontro Ciência 2019. “Science and technology summit in Portugal”. Lisbon (INVITED by FCT, with the presence of FCT president and AKDN representant)

http://encontrociencia.pt/files/2019/1530_SC_08_FranciscoLeitao.pdf

36. Baptista V, Carere C, Morais P, Cruz J, Castanho S, Ribeiro L, Pousão-Ferreira P, **Leitão F**, Wolanski E, Teodósio MA (2018) Personality traits of temperate pelagic fish larvae and implications on habitat choice. VII Congress of the Iberian Society for Ichthyology, University of Algarve, Faro, Portugal.

34. **Leitão F.** (2018) Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique) “BIOFISH – QoL. February 16, 2018 (INVITED by School of Marine and Coastal Sciences (Eduardo Mondlane University)

33. Manuessa, B., Borges TC., **Leitão F.** 2018. Determinação directa das idades, Dinâmica Populacional, Importância socioeconómica, ecologia e biologia reprodutiva do caranguejo de mangal *Scylla serrata* (Forsk., 1755) explorado ao longo do estuário dos Bons Sinais. III jornadas Científicas das Instituições do Ensino Superior da Zambézia: *Da produção do conhecimento Científico para a produção e melhoria de bens e serviços para as comunidades*. Sessão de Ciências Marinhas e Pescas. Cidade de Mocuba 18-19 Outubro de 2018. English: Direct Age Determination, Population Dynamics, Socioeconomic Importance, Ecology and Reproductive Biology of Mangrove Crab *Scylla serrata*

32. Mocuba, JJ. Teodósio, MAA., **Leitão, F.** 2018. The role of the Bons Sinais estuary as a nursery for fish species with commercial interest. III jornadas Científicas das Instituições do Ensino Superior da Zambézia: *Da produção do conhecimento Científico para a produção e melhoria de bens e serviços para as comunidades*. Sessão de Ciências Marinhas e Pescas. Cidade de Mocuba 18-19 Outubro de 2018.

31. Sousa F, Frazão H, Cagarra G, Fernandes J, Boutov D, **Leitão F**, Range P. 2018. Hydrological characterization of the submarine groundwater discharges at Olhos de Água, Algarve – FREZZE project. IX Symposium on Iberian Atlantic Margin – MIA 2018, Coimbra, 4-7 Setembro de 2018.

30. **Leitão L.** Anjos M, Kirchner C, Ovelheiro A, Campino M, Gavaia P, Quintela J, Teodósio MA, (2018). Contributo para a gestão sustentada da pequena pesca de CRUSTÁCEOS (pequenos caranguejos): Estudo da ecologia, biologia e dinâmica populacional dos pequenos caranguejos com interesse comercial existentes ao longo da costa Portuguesa *IN* Semana do Polvo 2018 Seminário do Polvo, 14 setembro in Centro Autárquico de Quarteira. INVITED by ARMALGARVE fishermen Organization/Association. (INVITED speaker)
29. **Leitão F.** (2018) Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique) “BIOFISH – QoL. February 16, 2018. 1.º Concurso FCT & Aga Khan (INVITED by Fundação para a Ciência e Tecnologia – FCT - Portuguese President of Science and Technology)
28. **Leitão F.** 2018. Climate change impacts in Portuguese Marine Resources (University of the Algarve-CCMar). *IN* The role of actors in the process of implementing climate action and sustainable development agendas: The Partnership of Marrakesh and the Talanoa Dialogue and the ocean-climate interface. 28 de Março de 2018, Lisboa Venue: Academy of Sciences. Thematic: Highlight: The Ocean and coastal Zones as an emergent climate policy and process within the UNFCCC: Why a priority at the Partnership? (INVITED by Isabel Torres de Noronha: Future Ocean Alliance - with the presence of the Sea Minister)
27. **Leitão F** and Teodosio A. 2016. “Biodiversity assessment in Monchique streams”. SOWAMO Workshop on Climate Change Adaptation - Water and Forests at Ås, Norway, 9-10 September 2016. (INVITED by Monchique Mayor/Municipality)
26. **Leitão, F.** 2016. Portuguese fisheries status and spatial management: the case of *sardina pilchardus* Fórum Internacional das Pescas dos Açores FIPA 2016, 6-9 de Junho 2016 (Oral communication: INVITED by Azores Regional Fisheries Office Director).
25. Ferreira R., Prazeres I, Silva M, Bentes L, **Leitão F**, Borges T, Bolten A. 2015. Sea turtle snorkling survey at príncipe island, west Africa. 35th International Sea Turtle Symposium, Dalaman, Turkey; 01/2015.
24. **Leitão F.** 2014. Dynamic of coastal fisheries resources: ecosystem approach to fisheries. Seminar to student of dynamic of aquatic ecosystems within ERASMUS MUNDUS Biodiversity and Conservation MASTER. 17 de Outubro 2014. University of Algarve, Faro.
23. **Leitão F.** 2014. Olhos de Água e o impacte na biodiversidade dos ecossistemas costeiros. Comemoração do Dia Nacional da Água. Albufeira, 1 outubro 2014. Salão Nobre da Câmara Municipal de Albufeira (INVITED by Albufeira Mayor/Municipality and Portuguese Environmental Agency of Algarve)

22. Sousa F.M., G. Carrara, J. Fernandes, D. Boutov, M. Loureiro, **F. Leitão**, P. Range e A. Machado, 2014: “Descargas de Águas Subterrâneas na plataforma continental do Algarve, p. 21-22. Encontro de Oceanografia, 21-22 de Março de 2014, Nazaré. Associação Portuguesa de Oceanografia (APOCEAN). Livro de resumos (book abstract)
21. Sousa F.M., G. Carrara, J. Fernandes, D. Boutov, M. Loureiro, **F. Leitão**, P. Range e A. Machado, 2014: “Descargas de Águas Subterrâneas na região dos Olhos de Água – alguns resultados das campanhas CTD”, p. 503-507 de “Proceedings da 8ª Assembleia Luso Espanhola de Geodesia e Geofísica”, (eds. B. Caldeira, J. Barrenho, J.F. Borges, J. Pombinho, M.J. Costa, M.R. Duque, M. Bezzeghoud e R. Salgado), ISBN: 978-989-98836-0-4, 593 pp (em formato digital).
20. **Leitão F.** 2012. Project “Voluntariado Ambiental para a Água” a Agência Portuguesa do Ambiente I.P. - Administração da Região Hidrográfica do Algarve (APA – ARH do Algarve). 16 e 17 de Novembro de 2012, o “3º Encontro Regional de Voluntariado Ambiental para a Água”, Saída 1- Monitorização Voluntária na Ria Formosa – Macroinvertebrados Bentónicos (INVITED by Faro mayor/Municipality-public session)
20. **Leitão F.** 2012. Integrating river influence on coastal fisheries dynamics (Doutor Francisco Leitão). Lecture within the International Summer Course in ECOHYDROLOGY: From River To Coasts. 01 August. University of Algarve, Faculty of Sciences and environment (Invited by summer course coordinator: Luis Chicharo)
19. **Leitão F.** 2012. Climatic changes and near shore fisheries (Doutor Francisco Leitão). Lecture of the Seminars of Ecology of resources, Master in Aquaculture & Fisheries. 15 June. University of Algarve (Invited by course coordinator Karim Erzini & Alexandra Chicharo)
18. **Leitão F.** 2012. Ecossistemas Costeiros e Marinheiros. “A avaliação de ecossistemas costeiros e os macroinvertebrados bentónicos”. Voluntariado Ambiental para a Água. Faro, 23 de Abril (Invited by “Ciencia Viva”, Algarve).
- English title: Marine and Coastal Ecosystems. Evaluation of coastal ecosystems and the macroinvertebrates. Regional meeting for water environmental volunteering.
17. Hughes SJ, **Leitão F**, Leitão F, Máximo I, Atanasova N, Cortes, MV, Furtado A, Chicharo L. 2012. Macroinvertebrate sampling protocols and classification of ecological status: a comparative experiment in intermittent Mediterranean river systems. TEMPRIV2012 - International Conference on Temporary Rivers. 12-14 September. University of Évora, Portugal.

16. **F. Leitão**, J. Encarnação, D. Piló, P. Range, A. Chicharo, L. Chicharo. 2012. Effect of groundwater discharges on subtidal benthic communities. ECSA 50. Estuarine Coastal and Shelf Association, Venice, Italy.

LINK: <http://www.estuarinecoastalconference.com/index.html>

15. **Leitão F.**, Chicharo, A. Chicharo, L. 2011. Os macroinvertebrados bentónicos e os ecossistemas costeiros. 2º Encontro Regional de Voluntariado Ambiental para a Água. Loulé, 24 e 25 de Novembro 2011(speaker: Invited by Regional Water management authorities, Algarve). Link:

http://www.arh Algarve.pt/site/parameters/arh Algarve/files/File/upload/Encontros_VA/A/2011/2ERVAA_25_26Nov_2011.pdf.

English title: Benthic macroinvertebrates and the coastal ecosystems. 2nd regional meeting for environmental water volunteer.

14. Atanasova N., **Leitão F.**, Mascarenhas A., Boski T. 2011. Rivers Nutrients and fish Catches in Guadiana estuary: from observations to modelling. Symposium “Margem Sul, Processos e Equilíbrios” 10 November 2011, University of Algarve (Invited by scientific board commission).

13. Teixeira C M., Gamito R., **Leitão F.**, Cabral H. N., Erzini K, Costa M.J. 2012. Trends in landings of fish species potentially affected by climate changes in Portuguese fisheries. Predictions and adaptations of climate change impacts on fish and fisheries. Proceedings of the 6th World Fisheries Congress Sustainable Fisheries in a Changing World. Edinburgh, Scotland. Book of Abstracts. Pg5

12. **Leitão F.**, Teixeira C., Roberts J., Chicharo L. 2012. Ecological trends in Portuguese fish assemblage's over the last 60ths. Proceedings of the 6th World Fisheries Congress Sustainable Fisheries in a Changing World. Predictions and adaptations of climate change impacts on fish and fisheries. Edinburgh, Scotland. Book of Abstracts Pg11.

11. **Leitão F.**, Máximo I. 2010. A Importância da Determinação da Qualidade Ecológica da água nas Ribeiras (Sistemas Aquáticos) do Algarve, no âmbito da Directiva Quadro de Água. Encontros imediatos com a Ciência. Centro de Ciência viva de Tavira. 26 Novembro (Invited, oral presentation).

English title: Importance of stream ecological quality determination in Algarve within water frame directive proposes. Science Lectures of Tavira life Science Centre. 26 November (Invited).

10. **Leitão F.** 2010. Algarve artificial reefs fish assemblages and trophic ecology: implications for the local near shore fisheries (Doutor Francisco Leitão). Lecture of the Seminars of Ecology of resources master aquaculture & fisheries. 09 June. University of Algarve (Invited, oral presentation)

9. Santos M.N., **Leitão F.**, Moura A., Cerqueira M. & Monteiro C.C. 2009. Diplodus spp assemblages on artificial reefs of different ages: influence of the associated

epibenthic macrofauna. 9th Conference on Artificial Reefs and Artificial Habitats, 8-13 November 2009, Curitiba, Brazil.

8. **Leitão, F.**, 2009. Algarve artificial reefs fish assemblages and trophic ecology: implications for the local near shore fisheries (Doutor Francisco Leitão). Lecture of the Seminars of Ecology of resources master aquaculture & fisheries. 30 April. University of Algarve (Invited, oral presentation)
7. **Leitão, F.**, 2007. Does the attraction of predators to an artificial reef cause indirect effects on reef-associated species? Seminários do mar e do ambiente. Faculdade de Ciências do Mar e do Ambiente. Algarve University. 3 May.
6. **Leitão F.** 2007. Artificial Reefs: Oasis for Marine Life in Algarve. Seminar about the convention on Biological Diversity - "*Biodiversity: Way for a Sustainable Evolution*". (www.Sylvestris.org/seminar.html). Sylvestre Foundation, *Instituto Superior de Agronomia*, October 27 to 29, Lisbon. (Invited, oral presentation)
5. **Leitão, F.**, Santos M.N., Erzini, K. 2006. Does the attraction of predators to an artificial reef cause indirect effects on reef-associated species? The sea bass, *Dicentrarchus labrax* (Linnaeus, 1758) case study. *XIV Simpósio ibérico de Estudos de biologia Marinha* (SIEBM XIV). 12-5 Setember 2006. Barcelona, Spain: p212
4. **Leitão F**; Santos, M.N., Curdia, J; Moura, A., Monteiro, C.C. Contribution of the Algarve artificial reefs (Southern Portugal) to the feeding diet of *Diplodus sargus* (L. 1758). *8th International conference on Artificial Reefs and Artificial Habitats*. 10-14 April 2005. Biloxi, USA:36.
3. Gaspar, M.B., **Leitão, F.M.**, Santos, M.N., Chícharo, L.M., Chícharo, A., Monteiro, C.C., 2004. Which are the benefits of using more selective and efficient bivalve dredges? World Congress of Malacology, 11-16 July 2004, Perth, Australia: 46.
2. Gaspar, M.B., **Leitão, F.**, Santos, M.N., Chícharo, L., Dias, M.D., Chícharo, A., Monteiro, C.C., 2003. Influence of dredge efficiency and selectivity on macrobenthic mortality. 38th European Marine Biology Symposium, 8 a 12 de Setembro, Universidade de Aveiro, Aveiro: 80.
1. **Leitão, F.M.S.**, Gaspar, M.B., 2003. Comparison between the impact induced by harvesting knife and hand dredge in the macrobenthic community associated to cockle (*Cerastoderma edule*, L.) fishery (Ria Formosa lagoon – Southern Portugal). *38th European Marine Biology Symposium*": Threats: **Management and Conservation: Human impacts and restoration**. 8-12 Setembro 2003. Universidade de Aveiro, Portugal. (83) 87-88.

11.7. DataSets

- Costa, Eudriano **Leitão, Francisco*** (2021), Land use and land cover in communities along the Bons Sinais estuary, Mozambique, Dryad, Dataset, <https://doi.org/10.5061/dryad.1zcrjdf0>

12. Works as referee for peer review journals

- Journal of Marine Biological Association of the U.K.
- Fisheries Research
- Journal of Fish Biology
- ICES Journal of Marine Science
- Scientia Marina
- Marine Biology
- Marine Ecology Progress Series
- Journal of Ecosystem & Ecography (Environmental Sciences Group)
- Chinese Journal of Oceanology and Limnology
- Journal of Applied Ichthyology
- CBM - Cahiers de Biologie Marine
- Asian Fisheries Science journal
- Marine Policy
- Hydrobiologia
- Fisheries Bulletin
- Acta oceanologica Sinica
- Journal of Aquatic Research and Marine Sciences
- Aquatic Conservation: Marine and Freshwater Ecosystems
- Estuarine, Coastal and Shelf Science
- Progress in Oceanography
- Marine and Coastal Fisheries (Dynamics, Management, and Ecosystem Science)
- Ocean & Coastal Management
- Frontiers in Marine Science
- Helyion (Elsevier)
- Thalassas: An International Journal of Marine Sciences
- Science of Total Environment
- Scientific Reports
- IGI Global eEditorial Discovery® (book chapter review)

13. Editorial activity

2021-2022- IGI Global eEditorial Discovery® (book chapter: Editorial Advisory Board: Impact of Artificial Reefs on the Environment and Communities)

Link: <https://www.igi-global.com/book/impact-artificial-reefs-environment-communities/282090#table-of-contents>

2018-2022 - Invited/Guess editor of *Frontiers in Marine Science*, special topic: Climate Change effects on fisheries

LINK: <https://www.frontiersin.org/research-topics/9051/vulnerability-of-fisheries-to-climate-change>

2019 – Editorial board of *Heliyon* (ELSEVIER); <https://www.heliyon.com/editorial-team/board/>

2019-2022 –Editorial board of *Marine Pollution* (*Frontiers in Marine Science*)

2020 - Invited/Guess editor of *Water*, special topic: Impact of Climate Change in Marine Resources, Their Habitats, and Associated Socio-Economic Systems

Link: https://www.mdpi.com/journal/water/special_issues/climate_marine_habitats_socio-econ

14. Awards

11/07/2022 - Erasmus+ project. ICM2019. Awarded grant by University of Algarve to visit Chile (university Andres Bello, Faculdade de Ciencias de la vida)

24/09/2000 - As recognition of the effort carried out for the promotion of ecological-friendly big-game fishing (*Catch & Release*) within sportive fishermen's practises (Link: http://www.apece.pt/apece_bolsas.html)

16/11/2012-14 - As recognition of the formation given within the “water volunteer project”, given by the Portuguese environmental agency.

15. Advisors Board; Evaluation Panels

- **2022**-ongoing: Invited research to deal as reviewer (peer-review) of the ongoing IUCN PT assessment of marine fish species list. Volunteer Project “Red Book of Marine Fishes of Portugal” conducted by the Oceanário de Lisboa and the Oceano Azul Foundation, in collaboration with the Institute for the Conservation of Nature and Forests (ICNF) and the Species Survival Commission of the International Union for Conservation of Nature (IUCN), and with the support of the Lisbon City Council (CML). The Red Book will be a vital tool to know the state of marine biodiversity in mainland Portugal, Azores and Madeira, and to inform conservation actions.
- **2021**: PhD Commission Board/evaluator panel: “Fundo Regional da Ciência e Tecnologia, Secretaria Regional da Cultura, da Ciência e Transição Digital, Governo Regional dos Açores.” Scientific Areas: 1b). Ciências Naturais/Ciências Biológicas/Biologia Marinha

English: Regional Science and Technology Fund, Regional Secretariat for Culture, Science and Digital Transition, Regional Government of the Azores.” Scientific Areas: 1b). Natural Sciences/Biological Sciences/Marine Biology

- **2020-2022**: EEA grants Portugal projects jury, Commission Board/evaluator panel: "Blue growth Program" Scientific Areas: 1) Environmental monitoring and maritime surveillance; 2) Fisheries and Aquaculture. Director General for Maritime Policy (Direção Geral das Políticas Marinhas-DGPM); Evaluation panel of “SGS#1 Programa Crescimento Azul no âmbito do Mecanismo Financeiro do Espaço Económico Europeu (MFEEE) 2014-2021 no âmbito do Aviso # 1, Ref 1, panel Fisheries and Aquaculture.
- **2015**: Advisor scientific board for Basin-watershed and Coastal management in Algarve. Invited in 2015 by Environmental Protection Agency (EPA, ARH-Algarve)

16. Software Packages

Kirchner, A.C. & Leitão, F (2019). fiddlercrab: Data extraction, manipulation and visualization for drone records in the CRUSTAPANHA project. R package version 0.0.1.13. [GitHub]

17. Media/Outreach

17.1 Broadcast Journals/Reviews etc

1. Gaspar, M.B., **Leitão, F.** 2004. Introdução de uma nova tipologia de ganchorra na pescaria de bivalves. Grupo Naval de Olhão. 4º Troféu Rapala-Shimano. Pesca ao atum, Olhão. pp 12-16.

2. Revista Visão: Visão: O último refúgio selvagem do Algarve: Ria Formosa Paraíso Selvagem. 51-62. 30 de maio de 2019.

Link: <https://24.sapo.pt/jornais/nacional/4104/2019-05-30#&gid=1&pid=1>

English: The last wild haven in the Algarve: Ria Formosa Seavage Paradise. 51-62. May 30, 2019.

3. UALGZine Nº13. 2020. Estudar a vulnerabilidade do setor da pesca em Portugal *IN* UALGZine Nº13. Pp. 40. No contexto: Transformar o nosso mundo: Agenda 2030 de Desenvolvimento Sustentável”, constituída por 17 objetivos do Desenvolvimento Sustentável. Dezembro de 2020. Link: https://www.ualg.pt/sites/default/files/inline-files/Revista_2020_final.pdf

English: Leitão 2021. UALGZine Nº13. 2020. Study the vulnerability of the fishing sector in Portugal to Climate Change Pp. 40. Transforming our world: 2030 Sustainable Development Agenda ”, proposed by 17 Sustainable Development goals. December 2020. Link: https://www.ualg.pt/sites/default/files/inline-files/Revista_2020_final.pdf

17.2 Web general Public (pre-release/spotlights):

1. Spotlight: estudo analisa o impacto das alterações climáticas na pesca portuguesa: <https://ccmar.ualg.pt/news/estudo-analisa-o-impacto-das-alteracoes-climaticas-na-pesca-portuguesa>

English: study analyzes the impact of climate change on portuguese fisheries

2. POSTCARD: BIOFISH-QoL (Quality of life) - Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique)

Link <https://ccmar.ualg.pt/en/news/postcard-quelimane-zambesia-mozambique>

3. BIOFISH-QoL (Quality of life) - Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique)

Link <https://barlavento.pt/destaque/ualg-visitou-mocambique-e-lancou-o-projeto-biofish>

4. BIOFISH-QoL (Quality of life) - Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique)

Link <http://www.postal.pt/2019/02/ualg-estreita-relacoes-com-mocambique/>

5. BIOFISH-QoL (Quality of life) - Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique)

Link <https://destakepopular.wordpress.com/2019/02/25/universidade-do-algarve-foi-a-mocambique-estreitar-relacoes/>

6. BIOFISH-QoL (Quality of life) - Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique)

Link <https://www.ccmар.ualg.pt/en/news/study-part-project-aims-improve-quality-life-fishing-communities-quelimane-mozambique>

7. Spotlight 25/02/2021: O Impacto Das Alterações Climáticas Na Pesca Portuguesa.
<https://ccmar.ualg.pt/news/estudo-analisa-o-impacto-das-alteracoes-climaticas-na-pesca-portuguesa>

8. Spotlight 19/05/2021: BUDOKIA: Projeto de Instalação de Recifes Artificiais Marinhos na zona costeira da ilha de São Tomé (São Tomé e Príncipe)

Project: Artificial Reef Project In São Tomé Wants To Promote Small Artisanal Fisheries

Link: <https://www.ccmар.ualg.pt/news/projeto-de-recifes-artificiais-em-sao-tome-pretende-promover-pequena-pesca-artesanal>

Youtube: <https://www.youtube.com/watch?v=EcdKy2GkXdk>

9. Lusa agency; Journal Publico (“Public journal”) 28 de Agosto de 2021, 18:48. ALTERAÇÕES CLIMÁTICAS: Aquecimento global muda vida e hábitos de plantas e animais em Portugal (English: Climate change: Global warming change the life and habits of plants and animals”)

Link: <https://www.publico.pt/2021/08/28/ciencia/noticia/aquecimento-global-muda-vida-habitos-plantas-animais-portugal-1975542>

10. Leitão. 2021. Webinar: Efeito das alterações climáticas na pesca em Portugal. 7 December 2021. Invited by SCIAENA ONG (non-governmental organization).

Link: <https://youtu.be/TcQ6h8eM7Pk>

11. Diário de Noticiais (“national journal”) 12 de Fevereiro de 2022, 10:08. ALTERAÇÕES CLIMÁTICAS: Alterações climáticas “empurram” caranguejo-azul para o prato dos portugueses (English: Climate change “pushes” blue crab onto Portuguese dishes”)

Link: <https://www.lusa.pt/article/35539374>

12. Correio da Manhã (“Public -national journal”) 12 de Fevereiro de 2022, 10:08. ALTERAÇÕES CLIMÁTICAS: Alterações climáticas “empurram” caranguejo-azul para o prato dos portugueses (English: Climate change “pushes” blue crab onto Portuguese dishes”)

Link: <https://www.cmjornal.pt/sociedade/detalhe/alteracoes-climaticas-empurram-caranguejo-azul-para-o-prato-dos-portugueses>

13. Link: Público (“national journal”) 12 de Fevereiro de 2022, 10:08. ALTERAÇÕES CLIMÁTICAS: Alterações climáticas “empurram” caranguejo-azul para o prato dos portugueses (English: Climate change “pushes” blue crab onto Portuguese dishes”) <https://www.publico.pt/2022/02/12/p3/noticia/caranguejoazul-breve-pratos-portugueses-causa-alteracoes-climaticas-1995260>

14. Spotlight 21/04/2022: pescadores alertados para o impacto das alterações climáticas na sua atividade. <https://www.ccmar.ualg.pt/news/pescadores-alertados-para-o-impacto-das-alteracoes-climaticas-na-sua-atividade>

15. 2 minutos de Ciência; 20/04/2022 – Universidade do Algarve

<https://www.youtube.com/watch?v=cTT8OmkV7FM>
<https://www.facebook.com/hashtag/2minutosdeciencia>

15. Noticias Universidad Andreas Bello-CIMARq: Investigadores europeos quedaron impresionados con CIMARQ de la UNAB catalogándolo de nivel mundial. 15 July 2022: Link: <https://noticias.unab.cl/investigadores-europeos-quedaron-impresionados-con-cimarq-de-la-unab-catalogandolo-de-nivel-mundial/>

16. Universidad Andreas Bello-CIMARq: Equipo Prensa UNAB Científico europeo explica en la UNAB efectos del cambio climático en la fauna marina. 21 July 2022: Link: <https://noticias.unab.cl/cientifico-europeo-explica-en-la-unab-efectos-del-cambio-climatico-en-la-fauna-marina-galeria/>

17.3 RADIO

Leitão. F. EP. 872 – PESCAS. FRANCISCO LEITÃO – PROJETO CLIMFISH AVALIA A VULNERABILIDADE DAS POPULAÇÕES DE PEIXES ÀS ALTERAÇÕES CLIMÁTICAS. JUNHO 09, 2020. Programa 90 segundos de Ciência, Antena1. Link: <https://www.90segundosdeciencia.pt/episodos/ep-872-francisco-leitao/>

17.4. TV

1. Leitão F. 2019. Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique). TV – Broadcast – evening Mozambique main channel news at 1 Mars 2019 (The news about project BIOFISH are highlighted at: 23:42 minutes). Link: http://online.tv.m.co.mz/site/ondemand/informacao/2101903100000500321/jornal_da_tarde

2. Leitão. F. 2019. Alterações do ambiente marinho e da temperatura em Portugal. SIC notícias, Primeiro Journal 16.05.2019 00h08. Link: <https://sicnoticias.pt/pais/2019-05-16-Universidade-do-Algarve-cria-plataforma-para-identificar-novas-especies-marinhas>

3. Leitão. F. 2021. BUDOKIA. Projeto de Instalação de Recifes Artificiais Marinhos na zona costeira da ilha de São Tomé (São Tomé e Príncipe). Televisão nacional São Tomé. Jornal da noite.
 English: Installation Project of Artificial Marine Reefs in the coastal zone of the island of São Tomé.
 TV – Broadcast. Main evening news at 12 April 2021.
<https://www.youtube.com/watch?v=EcdKy2GkXdk>

4. Leitão. F. 2022. BOMBORDO: A Pesca do Caranguejo em Portugal: Coordenador Científico RTP1-RTP2 (estreia brevemente). Teaser do Filme: <https://www.youtube.com/watch?v=0fLVYidRghg>

18. Membership (Associations)

- Ordem dos Biólogos (National Biology science Association)

- Associação Portuguesa para o Estudo e Protecção de Eslamosbrânquios (<http://www.apece.pt/>)

- Associated member of the UNESCO, International Centre for Coastal Ecohydrology (ICCE).

- Associated member of the Land Ocean Interaction of Coastal Zone (LOICZ).

- EuroScience free Associate Member