

*Curriculum vitae*

**Francisco Miguel de Sousa Leitão**

August 2023

# ***Curriculum vitae***

## **1. Personal information**

**Name:** Francisco Miguel de Sousa Leitão.

**Date of birth:** 22/01/1976

**Place of birth:** Lisbon, Nossa Senhora de Fátima

**Nationality:** Portuguese.

**Gender:** Male

**Identity Card Nº:** 10817380

**Marital status:** unmarried (1 dependent)

**Driving License number:** FA-153991 8

## **Contact**

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ResearchGate: [http://www.researchgate.net/profile/Francisco\\_Leitao/?ev=prf\\_highl](http://www.researchgate.net/profile/Francisco_Leitao/?ev=prf_highl)

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

## **Researcher IDs**

Orcid: <http://orcid.org/0000-0003-4983-9782> (OrcidID: h0000-0003-4983-9782)

ResearcherID: M-3980-2013

Scopus Author ID 7003991946

## **Present position:**

- Principal Researcher at the Centre of Marine Science (CCMAR), University of Algarve
- Ecology and restoration of riverine, estuarine and coastal habitats (ECOREACH) group leader coordinator: <https://www.ccmar.ualg.pt/en/list/groupleaders>
- Assistance professor at University of Algarve, Faculty of Sciences and Technology - FCT (2018-2024):

## **2. Academic Abilities, advance formation and other skills**

### **2.1. Academic/scientific profile**

#### **2023 -Principal Investigator (2022.04803.CEECIND)**

**General Domain:** Earth Sciences

**Scientific domain:** Climatic & Fisheries Sciences.

**Institution:** Centre of Marine Science (CCMAR/UALG), University of Algarve, Faro

Title: Climate-mediated shifts in marine resources: an eco-socio-economic approach to assess vulnerability of fisheries to Climate Change.

Overall Theme: predicting the effect of climate changes on coastal fisheries resources and fishing sector socio-economic level.

#### **2018 - Investigador Doutorado (DL57)**

**General Domain:** Earth Sciences

**Scientific domain:** Fisheries Sciences.

**Institution:** Researcher at Centre of Marine Science (CCMAR/UALG), University of Algarve, Faro.

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

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

#### **2015 - 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 aim: predicting the effect of climate changes on coastal fisheries resources.

#### **2009 - 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 Benjamin Planque).

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

Overall aim: 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 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](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 artesinal 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 achieve 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 Católica 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. 2<sup>nd</sup> 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.ccmar.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 Hjörleifsson, (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**

**2019-2023** – Senior/Principal-Professor researcher at Centre of Marine Science, University of Algarve

Research Goals: Evaluate the effect of climate change in fisheries; Fisheries time series analyses; Vertebrate and invertebrate ecology/biology; Restauration of marine habitats; fisheries research.

**2010-2019** – 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 has a budget of ca. 6 M € for a duration of 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 CO<sub>2</sub> 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 properties (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 - Nº 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 assess the viability of the fishery to *Pennaeus Kerathurus japonicus* shrimp with trammel nets, in Quarteira”. (IPIMAR/CRIPSul Project).

#### **Project coordination as Principal Investigator (PI) or Co-PI**

**2022** - 2022-2024: SEARM-FIT (Co-PI: budget: 50.000€) – 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€). Link: [SEARM-FIT](#)

**2020-2023:** CLIMA-PESCA (Main coordinator -PI: 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. Link: <https://climapesca.com/>

**English:** CLIMA-PESCA - (Main coordinator-PI: 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-PI: 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. Link: <https://climfish.eu/>

**2018** - BIOFISH-QoL - (Main coordinator: budget-PI: 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. Link: <https://biofishqol.eu/>

**2018-** CRUSTAPANHA (Main coordinator-PI: 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 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). English: Contribution to the sustainable management of artisanal small crab fisheries under climate change effects. Link: <https://crustapanha.eu/>

**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 Portuguese partners)

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

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 practices. 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 Projects submitted but not-founding (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

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

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 (PI coordination of the consortium: 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 – 2023** – 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**

### **5.1. Academic Level**

Invited Assistance professor at University of Algarve, Faculty of Sciences and Technology - FCT (2019-2023):

- 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
- Nekton and Benthic Processes - (Marine Biology bacharel) - biologia marinha (1.<sup>º</sup> ciclo) (1412)- processos bentónicos e nectónicos. 14121172
- Marine Ecosystems - (marine biology bacherel) - biologia marinha (1.<sup>º</sup> ciclo) (14121172)
- Fisheries Biology and Ecology (aquaculture and fisheries master) - aquacultura e pescas (2.<sup>º</sup> ciclo) (1430)
- Fisheries Biology and Ecology (marine biology master)- biologia marinha (2.<sup>º</sup> ciclo) (1433)

- Population Dynamics (Biologia (1.<sup>o</sup> ciclo) (1413)

## DECLARAÇÃO

Declara-se, para os devidos efeitos, que o Investigador Francisco Miguel de Sousa Leitão, tem lecionado na Faculdade de Ciências e Tecnologia da Universidade do Algarve, as seguintes Unidades Curriculares:

- **2018-2019** – **Biologia e Ecologia Pesqueira** do Mestrado em Biologia Marinha e Mestrado em Aquacultura e Pescas 1º semestre, num total de 13,5 horas; Teóricas 3h, Práticas 9h, Trabalho de Campo 1h e Seminários 0,5h.
  - **Dinâmica de Ecossistemas Aquáticos** do Mestrado em Biologia Marinha 1º semestre, num total de 4,5 horas; Teóricas 4,5h.
  - **Ecossistemas Marinhos** do curso de Biologia Marinha 2º semestre, num total de 14 horas; Práticas 9h e Trabalho de Campo 5h.
- **2019-2020** – Biologia e Ecologia Pesqueira do Mestrado em Biologia Marinha e Mestrado em Aquacultura e Pescas 1º semestre, num total de 12 horas; Teóricas 1,5h, Práticas 9h, Trabalho de Campo 1h e Seminários 0,5h.
  - **Ecossistemas Marinhos** do curso de Biologia Marinha 2º semestre, num total de 14 horas; Práticas 9h e Trabalho de Campo 5h.
  - **Processos Bentónicos e Nectónicos** do curso de Biologia Marinha 1º semestre, num total de 27,5 horas ; Teóricas 7,5, OT 15 e Seminários 5h.
- **2020-2021** – Biologia e Ecologia Pesqueira do Mestrado em Biologia Marinha e Mestrado em Aquacultura e Pescas 1º semestre, num total de 18 horas; Teóricas 3h e Práticas 15h.
  - **Ecossistemas Marinhos** do curso de Biologia Marinha 2º semestre, num total de 13 horas; Práticas 9h e Trabalho de Campo 4h.
  - **Processos Bentónicos e Nectónicos** do curso de Biologia Marinha 1º semestre, num total de 25 horas ; Teóricas 7, Tutoriais 15 e Seminários 3h.
- **2021-2022** – Biologia e Ecologia Pesqueira do Mestrado em Biologia Marinha e Mestrado em Aquacultura e Pescas 1º semestre, num total de 18 horas; Teóricas 3h e Práticas 15h.
  - **Dinâmica de Populações** dos cursos de Biologia e Biologia Marinha 2º semestre, num total de 32 horas; Teórico-Práticas 24h e Tutoriais 8h.

- **Ecossistemas Marinhos** do curso de Biologia Marinha 2º semestre, num total de 12 horas; Práticas 9h e Trabalho de Campo 3h.
- **2022-2023 – Dinâmica de Populações** dos cursos de Biologia e Biologia Marinha 2º semestre, num total de 32 horas; Teórico-Práticas 24h e Tutoriais 8h.
  - **Ecossistemas Marinhos** do curso de Biologia Marinha 2º semestre, num total de 18 horas; Práticas 12h e Trabalho de Campo 6h.

14 de setembro de 2023

O Diretor da Faculdade de Ciências e Tecnologia da Universidade do Algarve



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## DECLARAÇÃO

Declara-se que o Investigador **Francisco Miguel de Sousa Leitão** obteve os seguintes resultados nas avaliações efetuadas pelos estudantes no inquérito PEAdE - Perceções do Ensino e Aprendizagem:

Ano Letivo 2018/2019

Classificação de **4,59**, o que corresponde à média ponderada pelo número de alunos respondentes.

Ano Letivo 2019/2020

Classificação de **4,84**, o que corresponde à média ponderada pelo número de alunos respondentes.

Ano Letivo 2020/2021

Classificação de **4,52**, o que corresponde à média ponderada pelo número de alunos respondentes.

Ano Letivo 2021/2022

Classificação de **4,81**, o que corresponde à média ponderada pelo número de alunos respondentes.

11 de setembro de 2023

O Diretor da Faculdade de Ciências e Tecnologia da Universidade do Algarve

  
CARLOS GONÇALVES GUERRERO

### 5.2. Other teaching experience in University:

- 2022** - Lecture: Leitão F. 2022. Effect of climate change on Fisheries in Portugal (magistral class). Topics in Biology. Marine biology Course. Faro – 26th October 2022. Faculty of Science and Technology -University of Algarve (Invited by Prof. Luis Chicharo).
- 2022** - Lecture: Leitão F. 2022. Fisheries ecology and climate change. de la Facultad de Ciencias de la Vida de la U. Andrés Bello, Chile, 20 July (magistral class) (Invited by José Pulgar)
- 2018**- Lecture: Aquisição de dados em biologia: da amostragem biológica (desenho experimental) a dados recolhidos na internet (metadados) (magistral class). Tópicos em Biologia. Faro – 24th November 2017. Faculty of Science and Technology - University of Algarve (Invited by Prof. Rui Santos)
- 2017** - Aquisição de dados em biologia: da amostragem biológica (desenho experimental) a dados recolhidos na internet (metadados). (magistral class). Tópicos em Biologia. Faro – 24th November 2017. Faculty of Science and Technology -University of Algarve (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. (magistral class) 17 de Outubro
- 2012** - Lecture of International Summer Course in Ecohydrology: From River To Coasts. Integrating river influence on coastal fisheries dynamics. (magistral class). 01 August. Faculty of Science and Technology -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. (magistral class). 15 June. Faculty of Science and Technology -University of Algarve (Invited by Prof. Karim Erzini & Prof. Alexandra Chicharo)
- 2011** - Integrating river influence on coastal fisheries dynamics (Doutor Francisco Leitão). Lecture within the International Summer Course in ECOHYDROLOGY: From River To Coasts. 01 August. (magistral class). University of Algarve, Faculty of Sciences and environment (Invited by summer course coordinator: Luis Chicharo)
- 2012** - Climatic changes and near shore fisheries (Doutor Francisco Leitão). Lecture of the Seminars of Ecology of resources, Master in Aquaculture & Fisheries. 15 June. (magistral class). University of Algarve (Invited by course coordinator Karim Erzini & Alexandra Chicharo)
- 2011** - Lecture of the ERASMUS MUNDUS Master of Science in Ecohydrology: (Invited by Prof. Luis Chicharo): Ecological data management, exploitation and analysis. (magistral class). Faculty of Science and Technology -University of Algarve

**2011-** Practical field lectures of Marine Biology course (Biology of Invertebrates) and Master (Ecosystems Dynamics). (magistral class). Faculty of Science and Technology -University of Algarve

**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. (magistral class). (Invited by prof. Alexandra Chícharo)

**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. (magistral class). Faculty of Science and Technology -University of Algarve (Invited by prof. Alexandra Chícharo)

**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. (magistral class). Faculty of Science and Technology -University of Algarve (Invited by prof. Alexandra Chícharo)

**2009** - Introduction to multivariate ecological data analysis. (Francisco Leitão), 6<sup>th</sup> October 16:00 to 18:30. (Master classes in aquaculture & fisheries. (magistral class). Faculty of Science and Technology -University of Algarve (Invited by Prof. Luis Chícharo)

**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. (magistral class) 3 May.

### **5.3. In secondary schools, formation centres etc**

**2009 -2011** - In collaboration with Algarve University as UNESCO researcher (scientific coordinator) 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).

**2009- 2011 – At UNESCO Activities:** I was continuously invited to participated in several events 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.

**2007** - Data base (MS Access) former (30 hours): Due to the knowledge acquire regarding Data Bases was invited to lecture (*FormAlgarve* formation centre) advanced courses on data base.

**2006** - Data base (MS Access) former (28 hours): Data base (MS Access) former (30 hours): Due to the knowledge acquire regarding Data Bases was invited to lecture (*FormAlgarve* formation centre) advanced courses on data base.

**2013-2014** - Ação de Formação continua, Macroinvertebrados e Sistemas Costeiros (no âmbito do voluntariado para a água). 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 professor/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 evaluation of technical applied projects.

**2017 – Ongoing** – Scientific consultant of the BORBORDO RTP series (broadcast TV) on marine issues (Invited by the head of MARdeHistorias LDA media company)

**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.

**2021-202** - 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 SINFIC (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 proprieties (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 ostrea 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 ostrea 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)**

### 6.1. 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)

### 6.2. 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.º MAR-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)

### 6.3. 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 (SFRH/BD/06336/2021).

- 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 (SFRH/BD/11426/2022).
- 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](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).

#### 6.4. Master Students (13)

- Thiebaut Romane. 2022. Adaptation and mitigation measures to climate change of the Portuguese fishing community. Université de Perpignan. University of Perpignan Via Domitia. Master 2 “Sciences de la Mer”. 46pp (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.
- 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 Quiatuhangá. 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 CO<sub>2</sub> 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 Encarnaçao. 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](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 saltmarsh 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.

#### 6.5. Bachelor/ 4 year degree (9)

- Paula Akemi Ito. 2022. Time-series environmental database for Portuguese coastal areas and mapping the vulnerability of marine biological resources to climate change: a GIS-approach. Projeto Licenciatura em Biologia. Relatório final da UALG Estágio, integrada no 3º ano da licenciatura de Biologia.30pp (12ECTs)

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*). Projeto

Licenciatura em Biologia Relatório final da UALG Estágio, integrada no 3º ano da licenciatura de Biologia. 49pp. (12ECTs)

- 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, Moçambique 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, Moçambique 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, Moçambique 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 aspectos 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, Moçambique 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 Mausse. 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

#### 6.6. Undergraduate students; Scientific initiation Grants BII; Experimental work students; Internships (10)

- 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*); analise 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. B. Sc. in Biology or Marine Biology from University of La Rochelle (ULR), France (Internships;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). (3ECTs)

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). Experimental work in Marine Biology (3ECTs)

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) Experimental work in Marine Biology (3ECTs)

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

- 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 (3ECTs)

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. Experimental work in Marine Biology (3ECTs)

## **6.7. Academic Juri (by Invitation)**

### 6.7.1. PhDs referee (2)

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).

### 6.7.2. Masters degree referee (10):

- 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%20master%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 Marinas 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)

#### 6.7.3. Licenciatura/Bacherelato

- 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, coordination and lectured:**

#### 7.1. At societal level

- 2023** - Mocuba J, **Leitão F.** (organization/coordination). BIOFISH-QoL Workshop: "BIOFISH-QoL project main results: sharing with the community", May 18, 2023 – Quelimane, Mozambique (30 people: including chefs of community fishing centers, woman fish sellers from main fishing center/community; 2 teachers from basic education and 2 from preparatory cycle in the community of Cheubo Dembo; maritime/policy authorities).
- 2023** - Mocuba J, Morais E, Mualeque D, Monteiro J, **Leitão F.** (organization/coordination). Project BIOFISH-QOL workshop to publicize the BIOFISH-QoL project in the fishing community of Murrubune: "Environmental awareness and dissemination of project results in the context of promote fishery sustainability and quality of life enhancement". 13 of May 2023 – Quelimane, Moçambique (58 participants)
- 2023** - Mocuba J, Morais E, Mualeque D, Monteiro J, **Francisco Leitão.** (organization/coordination). Project BIOFISH-QOL workshop to publicize the BIOFISH-QoL project in the fishing community of Gazelas: "Environmental

awareness and dissemination of project results in the context of promote fishery sustainability and quality of life enhancement". 14 of May 2023 – Quelimane, Moçambique (200 participants)

- 2023** - Monteiro J, **Leitão F.** (Workshop organization). Workshop within the framework of the BIOFISH-QOL project: Evaluation sexual maturation on fish species: Introduction to r-software: Models for calculating reproductive periods; May 14, 2023 – **National Institute of Fisheries Research of Mozambique** (IIP). This workshop was lectured for all technical team/researchers department of Quelimane National Institute of Fisheries Research of Mozambique (IIP).
- 2023** - **Leitão F.** 2023. Fisheries Management and Climatic Change in Small Scale Fisheries. (webinar Lecture). Invited lecture by WWF Mediterranean. Project: Transforming Small Scale Fisheries Description of the activity: Preparation of training session on climate change adaptation in Small Scale fisheries for SSF team training on Fisheries Management Plans, Trieste 22-23 February 2023.
- 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/coordination & 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/coordination & lecture). **Vianapesca -O.P.-Cooperativa de Produtores de Peixe de Viana do Castelo Crl.** Sala For-Mar, Av. do Atlântico, 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/coordination & 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/coordination & 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/coordination & 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/coordination & 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/coordination & 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/coordination & 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/>

## 7.2. Academic Advanced Courses

**2023** - Intensive advance course (organization and lecture): **Leitão F.** “Database in Ecology” - within the framework of the BIOFISH-QOL project. - within the framework of the BIOFISH-QOL project. “BIOFISH – QoL – Capacity building Action 4. School of Marine and Coastal Sciences (Eduardo Mondlane University), Quelimane, Zambézia-Moçambique (hours:8). May 11 2023

**2023** - Intensive advance course (organization and lecture): **Leitão F.** “Experimental design and data analysis in Ecology” - within the framework of the BIOFISH-QOL project. “BIOFISH – QoL – Capacity building Action 3. School of Marine and Coastal

Sciences (Eduardo Mondlane University), Quelimane, Zambézia-Moçambique (hours:8). May 19 2023

**2021** - Intensive advance course (lecture): Leitão 2021. Advance course on artificial reefs. São Tomé 12-14 April 2021.

Link: <https://www.programatato.org/post/recifes-artificiais-em-s%C3%A3o-tom%C3%A9%C9-budo-ki%C3%A1>

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

**2020** - Advance course organization: Stock Assessment With Generalized Depletion Models Combined With Population Dynamics Models (course Organization). CCMAR - Centre of Marine Science (university of Algarve). Hold on IPMA-IPIMAR-Olhão 09-12 March.

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

**2020** - Advance course organization: “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 Católica de Murcia, UCAM’

**2020** – Advance course organization: *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.

**2019** – Advance course (organization and lecture): **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.

Link: <https://biofishqol.eu/2023/02/16/curso-de-estatistica-experimental-e-realizado-na-escola-superior-de-ciencias-marinas-em-quelimane-mocambique-2019/>

**2013** - organization and lecture: 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.

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

**2011** – Organization: Advanced course: Centre of Marine Science (university of Algarve): Practical ecological modelling and analysis for coastal and marine management. 11/12/13 July 2011 (course Organization)

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

**2011** - Organization: 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)

### 7.3. 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. <https://blueroute2030.com/un-ocean-conference/>

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, MSACESS
- **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; MSACESS; 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 amêijoa-branca (*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

## Author Position [?](#)

Based on 52 documents for 2013 - 2022

First author • 27%

14 Documents    12 Average citations    0.667 FWCI

Last author • 25%

Co-author • 38%

Corresponding author • 48%

Single author • 8%

## Collaboration

50.00%

International collaboration  
Percent of documents co-authored  
with researchers in other  
countries/regions

3.85%

Academic-Corporate collaboration  
Percent of documents with both academic and  
corporate affiliations

Analyze in Scival [?](#)

## Documents in top citation percentiles

43.5% (20 documents)

Percent of documents in the top 25%  
most cited documents worldwide

Analyze in Scival [?](#)

Documents

6

5

4

3

2

1

0

2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

■ Documents In Top 25% Most Cited

## Documents in top 25% journals by CiteScore percentile [?](#)

63.5% (33 documents)

Percent of documents in the top 25%  
journals by CiteScore

Analyze in Scival [?](#)

Documents

8

6

4

2

0

2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

■ Documents In Top 25% Most Cited Journals

## Submitted papers:

Mocuba 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)

## Papers Published (\* corresponding/leader author)

79. Monteiro J.N, Ovelheiro A, Pinto M, Teodósio M.A, **Leitão F\***. 2022. Reproductive characteristics of *Panopeus africanus* on the South Portuguese coast. *Regional Studies in Marine Biology* (in press)
78. Monteiro J.N, Bueno-Pardo J, Pinto M, Pardal M.A, Martinho F, **Leitão F**. 2023. Implications of warming on the morphometric and reproductive trait of the green crab, *Carcinus maenas*. *Fishes. Fishes* 2023, 8, 485. <https://doi.org/10.3390/fishes8100485>
77. **Leitão F**, Monteiro JN, Cabral, P. Teodósio M.A, Roa-Ureta R.H. 2023. Revealing the role of crab as bait in octopus fishery: an ecological and fishing approach for support management decisions. *Marine Policy*.
76. **Leitão F**. 2023. Environmental conditions affect striped red mullet (*Mullus surmuletus*) artisanal fisheries. *Oceans* 4 (3), 220-236. <https://doi.org/10.3390/oceans4030015>
75. García-Huidobro MR, Aldana M, Varela P, García-Herrera C, Monteiro JN, **Leitão F**, Teodósio MA, Quijón PA, Varas O, Fernández M, Duarte C, Pulgar J. 2023. The influence of upwelling on key bivalves from the Humboldt and Iberian current systems. *Marine Environmental Research*. 189, 106031. <https://doi.org/10.1016/j.marenvres.2023.106031>
74. Pinto M, Albo-Puigserver M, **Leitão F**. 2023. “Conversas Clima-Pesca”: participatory assessment of climate change adaptation measures for fisheries in Portugal. IN Moranta et al (2023). Sowing potential transformative changes in the fishing and agrifood systems – Conference report. *Marine Policy*. 154, 105673. <https://doi.org/10.1016/j.marpol.2023.105673>; Link: <https://ars.els-cdn.com/content/image/1-s2.0-S0308597X23002002-mmcl.pdf>
73. Moranta J, Florido F, López-López L, Gómez S, Agujetas J, Albo-Puigserver M, Bathily L, Calvário R, Cavallé M, Coll M, Crane A, Oliveira CL, Ertör I, Gianelli I, Herrera-Racionero P, **Leitão F**, Miret-Pastor L, Ortega M, Pascual J, Sáez J, Seck A, Villasante S. 2023. Sowing potential transformative changes in the fishing and agrifood systems – Conference report. *Marine Policy*. 105673. <https://doi.org/10.1016/j.marpol.2023.105673>
72. Pinto M, Albo-Puigserver M, Bueno-Pardo P, Monteiro J, Teodósio M.A, **Leitão F**. Eco-socio-economic vulnerability assessment of Portuguese fisheries to climate change. *Ecological Economics*. 107928. <https://doi.org/10.1016/j.ecolecon.2023.10792>
71. Ovelheiro A, Monteiro J, Gonçalves P, Campinho M.A, Maio F., Teodósio M.A, **Leitão F**. 2023. Macro and microscopic maturation stage key of green crab (*Carcinus*

*maenas*, Linnaeus 1758): reproductive cycle and differences among estuarine system. Fisheries Research, 10682. <https://doi.org/10.1016/j.fishres.2023.106828>

70. Albo-Puigserver M, Bueno-Pardo J, Pinto M, Monteiro J.N, Ovelheiro A, Teodósio M.A, **Leitão F\***. 2022. Ecological sensitivity and vulnerability of fishing fleet landings to climate change across regions. Scientific Reports. <https://doi.org/10.1038/s41598-022-21284-3>
69. Baptista, V., Juan Bueno-Pardo., Blasco. N.P., Maria Alexandra Teodosio, **Leitão, F\***. Environmental variability and fishing effects on artisanal flatfish fisheries along the Portuguese coast. Frontiers in Marine Science. <https://doi.org/10.3389/fmars.2022.844158>
68. 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. 45. 1716–1727 DOI: <https://doi.org/10.1007/s12237-021-01035-9>
67. **Leitão F\***, Ureta R-H, Cánovas F. 2020. 'Editorial': Vulnerability of Fisheries to Climate Change. Frontiers in Marine Science. <https://doi.org/10.3389/fmars.2020.613793>
66. **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. <http://dx.doi.org/10.1016/j.ocecoaman.2021.105587> (IF: 2.482)
65. 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, 2958; <https://doi.org/10.1038/s41598-021-82595-5>.
64. 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. <https://doi.org/10.1016/j.rsma.2020.101438>
63. 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: <https://doi.org/10.1016/j.scitotenv.2020.142044>
62. 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>

61. 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. <https://doi.org/10.3390/d12060214>
60. 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>
59. 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>
58. 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>
57. 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>
56. 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>
55. **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.org/10.3389/fmars.2019.00302>
54. 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>
53. 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: <https://doi.org/10.3390/j1010012>
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: <https://doi.org/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: <https://doi.org/10.1002/aqc.2947>
50. Sroczyńska 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.* 38(2): 535-553. ISSN: 0213-8409. DOI: 10.23818/limn.38.31
49. Piló D, Barbosa A, Teodósio MA, Encarnação J, **Leitão F**, Range P, Krug LA, Chicharo L. 2018. Are submarine groundwater discharges affecting the structure and physiological status of rocky intertidal communities?. *Marine Environmental Research* 136: 158-173 <https://doi.org/10.1016/j.marenvres.2018.02.013>
48. **Leitão, F\***. Relvas P, Canovas F, Baptista, V., Teodósio, A. 2018. Northerly wind trends along the Portuguese marine coast since 1950. *Theoretical and Applied Climatology* 137, 1-19 DOI: <https://doi.org/10.1007/s00704-018-2466-9>
47. **Leitão F\***, Baptista, V Erzini, K. 2018. Reconstructing discards profiles of unreported catches. *Scientia Marina* 82S1 39-49.DOI: <https://doi.org/10.3989/scimar.04723.08A>
46. Baptista V, Silva PL, Relvas P, Teodósia A, **Leitão F**. 2017. Sea surface temperature variability along the Portuguese coast since 1950. *International Journal of Climatology*. DOI: <https://doi.org/10.1002/joc.5231>
45. Seyer T, Pedro M, **Leitão F**, Martins F, Teodósio MA. 2017. On the presence of the Ponto-Caspian hydrozoan *Cordylophora caspia* (Pallas, 1771) in an Iberian estuary: highlights on the introduction vectors and invasion routes. *Biological Invasion Review*. DOI: <https://doi.org/10.3391/bir.2017.6.4.05>
44. Fernandes J, Almeida C, De Plaen, J, Melo T, Stigter T, **Leitão F**, Range P, Carrara G. 2015. Submarine Groundwater Discharge on the Algarve Shelf: case study of Albufeira-Ribeira de Quarteira Aquifer System. *Comunicações Geológicas* 102, 111-117 ISSN: 0873-948X; e-ISSN: 1647-581X Versão online: [http://www.lneg.pt/download/12922/21%20-%20Fernandes%20et%20al%20Descargas%20de%20%E1gua%20subterr%20neia\\_ER.pdf](http://www.lneg.pt/download/12922/21%20-%20Fernandes%20et%20al%20Descargas%20de%20%E1gua%20subterr%20neia_ER.pdf)
43. Teodósio MA, Garrido S, **Leitão F**, Peters J, Ré P, Santos AM. 2016. Assessing the impact of environmental forcing on the condition of anchovy larvae using nucleic acid and fatty acid-derived indices. *Estuarine, Coastal and Shelf Science*. 185: 94-106. <https://doi.org/10.1016/j.ecss.2016.10.023>
42. Sroczyńska K, Claro M, Range P, Wasiak K, Wojtal-Frankiewicz A, Ben-Hamadou R, **Leitão F**, Chicharo L. 2016. Habitat-specific benthic metabolism in a Mediterranean-

type intermittent stream. Annual Limnology - International Journal of Limnology. 52 243-252 <https://doi.org/10.1051/limn/2016012> (IF: 1.036; Q3)

41. **Leitão F\***, Baptista V. 2016. The discard ban policy, economic trends and opportunities for the Portuguese fisheries sector. Marine Policy.75: 75–83 DOI: <https://doi.org/10.1016/j.marpol.2016.10.012> (IF: 2.253; Q1)
40. Vieira VMNCS, Creed J, Scrosati RA, Santos A, Dutschke G, **Leitão F**, Engelen AH, Huanel OR, Guillemin M-L, Mateus M, Neves R. 2016. On the choice of linear regression algorithms. Annual Research and Review in Biology 10(3): 1-9. DOI: <https://doi.org/10.9734/ARRB/2016/25219>
39. **Leitão, F.** 2015. Time series analyses reveal environmental and fisheries controls on Atlantic horse mackerel (*Trachurus trachurus*) catch rates. Continental Shelf Research 111: 342–352. DOI: <https://doi.org/10.1016/j.csr.2015.08.026>
38. **Leitão F\***, Encarnação J, Range P, Schmelz, R.M., Chicharo A, Chicharo L. 2015 Submarine groundwater discharges create unique benthic communities in coastal marine environment. Estuarine Coastal and Shelf Science 163, 93-98. DOI: <https://doi.org/10.1016/j.ecss.2015.06.007>
37. Teixeira C. M, Gamito R, **Leitão F**, Murta A.G, Cabral H.N, Erzini K, Costa M.J. 2016. Environmental influence on commercial fishery landings of small pelagic fish in Portugal. Regional Environmental Change 16(3) 709-716 DOI: <https://doi.org/10.1007/s10113-015-0786-1> (IF: 2.260; Q2)
36. Baptista V., Campos, C., **Leitão F\***. 2016. The influence of environmental factors and fishing pressure on *Diplodus vulgaris*. Estuaries and Coasts 39, 258-272. DOI: <https://doi.org/10.1007/s12237-015-9990-y>
35. **Leitão F\***. 2015. Landing profiles of Portuguese fisheries: assessing the state of stocks. Fisheries Management and Ecology 22, 152-163 DOI: <https://doi.org/10.1111/fme.12112>
34. **Leitão, F\***., Baptista V, Teodósio M.A., Hughes, S., Vieira V, Chicharo L. 2014. The role of environmental and fisheries multi-controls in *Diplodus sargus* artisanal fisheries. Regional Environmental Change 16, 163-176 DOI: <https://doi.org/10.1007/s10113-014-0726-5>
33. Vasco, V; **Leitão, F.**, Mateus, M. 2015. Biomass-density data analysis: a comment on Cabaço et al. (2013). Journal of Ecology 103, 537–540 Doi: <https://doi.org/10.1111/1365-2745.12294>
- 32 **Leitão F\***, Hughes SJ, Máximo I, Atanasova N, Furtado A, Chicharo L. 2014. Comparison of two macroinvertebrate sampling protocols and their influence on the classification of ecological status in intermittent Mediterranean river systems (Algarve, Southern Portugal). River Research Applications. 30: 1233–1247 DOI: doi: <https://doi.org/10.1002/rra.2800>

31. Range P, Martins M, Cabral S, Piló D, Ben-Hamadou R, Chicharo M, **Leitão F**, Drago T, Oliveira A.P, Matias D, Chicharo L. 2014. Relative sensitivity of soft-bottom intertidal macrofauna to increased CO<sub>2</sub> and experimental stress. *Marine Ecology Progress series* 509: 153-170 DOI: <https://doi.org/10.3354/meps10861>
30. **Leitão, F\***., Alms, V., Erzini, K. 2014. A multi-model approach to evaluate the role of environmental variability and fishing pressure in sardine fisheries. *Journal of Marine Systems*. 139, 128-138. DOI <https://doi.org/10.1016/j.jmarsys.2014.05.013>
29. Encarnação J, **Leitão F\***., Piló D., Range P., Chicharo A., Chicharo L. 2014. Local and temporal variations in near-shore macrobenthic communities under the effect of submarine groundwater discharges. *Marine Ecology*. 36(4) 926-941 (Accepted for publication, 04/28/2014). doi: <https://doi.org/10.1111/maec.12186>
28. **Leitão, F\***., Baptista V, Erzini K., Iritanu, D., Zeller, D. 2014. Reconstruction of mainland Portugal fisheries catches 1950-2010. *Working Paper Series*. Fisheries Centre, University of British Columbia. 08, 1-29.  
(Link: [http://www.fisheries.ubc.ca/webfm\\_send/345](http://www.fisheries.ubc.ca/webfm_send/345))
27. **Leitão, F\***., Baptista, V., Erzini, K. Zeller, D. 2014. Reconstructed catches and trends for mainland Portugal fisheries between 1938 and 2009: implications for sustainability, domestic fish supply and imports. *Fisheries Research*. 155, 35-50 (DOI: <https://doi.org/10.1016/j.fishres.2014.02.012>
26. **Leitão F\***, Range P, Gaspar M.B. 2014. Survivorship of bycatch species discarded from an artisanal dredge fishery in Portugal. *Brazilian Journal of Oceanography*, 62(4):257-263 <https://doi.org/10.1590/S1679-87592014067006204> (IF: 0.60; Q3)
25. Teixeira C.M., Gamito R., **Leitão F**., Cabral H.N., Erzini K., Costa M.J. 2014. Trends in landings of fish species potentially affected by climate changes in Portuguese fisheries. *Regional Environmental Change*. 14: 657-669. DOI: <https://doi.org/10.1007/s10113-013-0524-5>
24. Baptista V., Ullah H., Teixeira C.M., Range P., Erzini K., **Leitão F\***. 2014. Influence of environmental variables and fishing pressure on bivalve fisheries in an inshore lagoon and adjacent nearshore coastal area. *Estuaries and Coast*. 37, 191-205. (DOI: <https://doi.org/10.1007/s12237-013-9658-4>
23. Encarnação J, **Leitão F**., Piló D., Range P., Chicharo A., Chicharo L. 2013. The influence of submarine groundwater discharges on subtidal meiofauna assemblages in south Portugal (Algarve). *Estuaries and Shelf Coast Science* 130, 202-208. DOI: <https://doi.org/10.1016/j.ecss.2013.04.013>
22. Baptista V., **Leitão F\***. 2014. Commercial catch rates of *Spisula solidissima* reflect local environmental conditions on the coast of Portugal. *Journal of Marine Systems*. 130. 79-89. DOI: <https://doi.org/10.1016/j.jmarsys.2013.07.010>
21. Ullah H., **Leitão F\***., Vânia B., Chicharo, L.. 2012. An analysis of the impacts of climatic variability and hydrology on the coastal fisheries, *Engraulis encrasicolus* and

*Sepia officinalis*, of Portugal. Ecohydrology and Hydrology. 12(4) 337-352. DOI: <https://doi.org/10.2478/v10104-012-0026-y>

20. **Leitão F\***. 2013. Artificial reefs: from ecological processes to fishing enhancement tools. Brazilian Journal of Oceanography. 61(1) 77-81. DOI: <https://doi.org/10.1590/S1679-87592013000100009>
19. Soares F., Freitas R, Soares J, **Leitão F \***, Cristo M.. 2012. Feeding ecology and morphometric relationships of white seabream, *Diplodus sargus lineatus* (Sparidae), endemic species of Cape Verde. *Cybium* 36(3): 461-472. <https://doi.org/10.26028/cybium/2012-363-005>
18. Pilo, D., **Leitão, F.** Ben-Hamadou R, Range P, Chicharo A, Chicharo L. 2011. Macrofaunal response to sewage discharges in confined areas from coastal lagoons: Implication on the Ecological quality status. *Journal Vie et Milieu/ Life and Environment* 61 (2): 107-118.
17. Santos, M. N., **Leitão, F.**, Moura, A., Cerqueira M., Monteiro, C. C. 2011. *Diplodus* spp assemblages on artificial reefs of different ages: influence of the associated epibenthic macrofauna. ICES Journal of Marine Science 68: 87-97. doi: <https://doi.org/10.1093/icesjms/fsq139>
16. **Leitão F\***., Gaspar M. B. 2011. Comparison of the burrowing response of commercially undersized cockles (*Cerastoderma edule*) after fishing disturbance using hand dredge and harvesting knife. *Marine Biology Research* 7 (5): 509-514. DOI: <https://doi.org/10.1080/17451000.2010.527989>
15. **Leitão, F.**, Gaspar M. B. Santos, M. N., Monteiro, C.C. 2009. A comparison of bycatch and discard mortality in three types of dredge used in the Portuguese *Spisula solidissima* (solid surf clam) fishery. *Aquatic Living Resources* 22(1): 1-10. DOI: <https://doi.org/10.1051/alr/2009001>
14. **Leitão, F.**, Santos, M. N. Monteiro, C. C. 2009. *Diplodus* spp. assemblages on artificial reefs: importance for near shore fisheries. *Fisheries Management and Ecology* 16: 88-99. doi: <https://doi.org/10.1111/j.1365-2400.2008.00646.x>
13. **Leitão, F.**, Santos, M. N. Erzini, K., Monteiro, C. C. 2008. Fish assemblages and rapid colonisation after enlargement of an artificial reef off the Algarve coast (Southern Portugal). *Marine Ecology* 29(4): 435-448. doi: <https://doi.org/10.1111/j.1439-0485.2008.00253.x>
12. Moura, A., da Fonseca, L. Cancela, Cúrdia, J., Carvalho, S., Boaventura, D., Cerqueira, M., **Leitão, F.**, Santos, M. N., Monteiro, C. C. 2008. Is surface orientation a determinant for colonisation patterns of vagile and sessile macrofauna on artificial reefs?. *Biofouling* 24(5): 381-391. DOI: <https://doi.org/10.1080/08927010802256414>
11. **Leitão, F.**, Santos, M. N. Erzini, K., Monteiro, C. C. 2008. Effect of predation on artificial reef juvenile demersal fish species. *Marine Biology* 153: 1233-1244. DOI: <https://doi.org/10.1007/s00227-007-0898-3>

10. Moura, A., Boaventura, D., Cúrdia, J., Carvalho, S., Cancela da Fonseca, L., **Leitão, F.M.**, Santos, M.N., Monteiro, C.C. 2007. Effect of depth and reef structure on early macrobenthic communities of the Algarve artificial reefs (southern Portugal). *Hidrobiologia* 580: 173-180. DOI: <https://doi.org/10.1007/s10750-006-0455-y>
9. **Leitão, F.**, Santos, M. N. Monteiro, C. C. 2007. Contribution of artificial reefs to the diet of the white sea bream (*Diplodus sargus*). *ICES Journal of Marine Science* 64: 473-478. doi: <https://doi.org/10.1093/icesjms/fsm027>
8. **Leitão F.M.S**, Gaspar M. B. 2007. Immediate impact of intertidal non-mechanised cockle harvesting on macrobenthic communities: a comparative study. *Scientia Marina* 71(4): 723-733.
7. Carvalho, S. Moura, A. Gaspar, M. B. Pereira, P. Falcão, M., Cancela da Fonseca, L., Drago, T., **Leitão, F. M.**, Regala, J., 2005. Spatial and inter-annual variability of the macrobenthic communities within a coastal lagoon (Óbidos lagoon) and its relationship with environmental parameters. *Acta Oecologica* 27: 143-159. doi: <https://doi.org/10.1016/j.actao.2004.11.004>
6. Boaventura, D., Moura, A., **Leitão, F.**, Carvalho, S., Cúrdia, J., Pereira, P., Fonseca, L. C., Santos, M. N. and Monteiro C. C. 2006. Macrofaunal colonisation of artificial reefs on the southern coast of Portugal (Ancão, Algarve). *Hidrobiologia*: 555: 335 – 343. DOI: <https://doi.org/10.1007/s10750-005-1133-1>
5. Moura, A., Boaventura, D., Cúrdia, J., Pereira, P., Carvalho, S., Cancela da Fonseca, L., **Leitão, F.M.**, Santos, M. N., Monteiro, C. C. 2004. Benthic succession on an artificial reef in the south of Portugal – preliminary results. *Revista Biol. (Lisboa)* 22: 169-181.
4. Gaspar, M.B., **Leitão, F.**, Chicharo, L., Santos, M. N., Monteiro, C.C. 2003. A Comparison of direct mortality inflicted on macrofaunal organisms by three types of dredges used in the Portuguese clam fishery. *ICES Journal of Marine Science* 60: 733-742. DOI: [https://doi.org/10.1016/S1054-3139\(03\)00023-7](https://doi.org/10.1016/S1054-3139(03)00023-7)
3. Gaspar, M.B., Santos, M. N., **Leitão, F.**, Falcão, M., Monteiro, C.C. 2003. Recovery of substrate and macro-benthos after fishing trials with a new Portuguese clam dredge. *Journal of Marine Biology Association of the United Kingdom* 83: 713-717. DOI: <https://doi.org/10.1017/S0025315403007690h>
2. Gaspar, M.B., **Leitão, F.**, Chicharo, L., Santos, M. N., Sobral, M., Chicharo. A., Monteiro, C.C. 2003. Size selectivity of the *Spisula solidissima* dredge in relation to tooth spacing and mesh size. *Fisheries Research* 60: 561-568. Doi: [https://doi.org/10.1016/S0165-7836\(02\)00140-6](https://doi.org/10.1016/S0165-7836(02)00140-6)
1. Gaspar M. B., **Leitão, F.** Santos, M. N, Sobral, M., Chicharo L., Chicharo, A., Monteiro, C. C. 2002. Influence of mesh size and tooth spacing on the proportion of damaged organisms in the catches of the Portuguese clam dredge fishery. *ICES Journal of Marine Science* 51(6): 1228-1236. DOI: <https://doi.org/10.1006/jmsc.2002.1310>

## **11.3 Books, Book Chapters, Technical Manuals**

### **11.3.1. Books**

1. Chicharo L, Morales J, Sempere F [et al], (2012). Projecto DIMEAGUA. Desenvolvimento e harmonização de novos indicadores, metodologias e estratégia comuns por Portugal e Espanha para a aplicação da Directiva Quadro de Água (DQA) às massas de água de transição e Costeiras, 117pp. (POCTEP – Programa Operacional de Cooperação Transfronteiriça Espanha-Portugal 2007-2013)

English Title: Harmonizing new bio indicators, methodologies and common strategies between Portugal and Spain for the application of the water frame directive (WFD) to trans-boundary estuarine and coastal waters.

2. **Leitão, F.**, Roa-Ureta, R. H., Cánovas, F., (Eds) (2021). Vulnerability of Fisheries to Climate Change. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-88966-388-0
3. **Leitão F**, Pinto M, Puigserver M.A, Teodósio A. (Eds) (2023). Vulnerabilidade da pesca em Portugal ao impacto das mudanças climáticas. Universidade do Algarve, Faro, Portugal 76pp. (in press). <https://doi.org/10.34623/eaem-4626>; ISBN: 978-989-9127-26-5 (formato impresso); ISBN: 978-989-9127-27-2 (formato digital).
4. **Leitão F**, Teodósio E (Eds) (2023). Diversidade Ecológica, pesca e comunidades piscatórias do estuário dos Bons Sinais (Quelimane-Moçambique) (in press). DOI-Digital Object Identifier: <https://doi.org/10.34623/7s3x-nz29>; ISBN:978-989-9127-44-9 (formato impresso); ISBN:978-989-9127-45-6 (formato digital).

### **11.3.2. Book Chapters**

1. Santos MN, Monteiro CC, **Leitão F.** 2011. The Role of Artificial Reefs in the Sustainability of Artisanal Fisheries. IN Artificial reefs in fisheries management. Stephen A. Bortone; Frederico Pereira Brandini; Gianna Fabi; Shinya Otake Eds. CRC press. 350p. DOI: 10.1201/b10910-15
2. **Leitão F**, Baptista V, Erzini K, Iritani D. and Zeller D. 2016. Portugal (Mainland), p. 369 In: D. Pauly and D. Zeller (eds.) Global Atlas Of Marine Fisheries: a critical appraisal and Ecosystem impact, Island Press, Washington, D.C.
3. **Leitão F**, Pinto M, Monteiro J, Mocuba J, Mualeque D, Costa E, Teodósio A. 2023. A pesca e o Estuário dos Bons Sinais xx-xxpp IN: Leitão F, Teodósio E (Eds) (2023). Diversidade Ecológica, pesca e comunidades piscatórias dos estuários dos Bons Sinais (Quelimane-Moçambique). XXpp. <https://doi.org/10.34623/v0db-8s83>
4. Mocuba J, Costa E, **Leitão F.** 2023. Caracterização ambiental do Estuário dos Bons Sinais Sinais xx-xxpp IN: Leitão F, Teodósio E (Eds) (2023) Diversidade Ecológica, pesca

e comunidades piscatórias dos estuários do estuário dos Bons Sinais (Quelimane-Moçambique). XXpp. <https://doi.org/10.34623/61vj-te97>

5. Mualeque D, Costa E, Morais E, **Leitão F**. Embarcações de pesca do Estuário dos Bons Sinais xx-xxpp IN: Leitão F, Teodósio E (Eds) (2023) Diversidade ecológica, pesca e comunidades do estuário dos Bons Sinais, Quelimane, Moçambique. XXpp. <https://doi.org/10.34623/k3g8-xv62>

Mualeque D, Costa E, Morais E, **Leitão F**. Artes de pesca do Estuário dos Bons Sinais xx-xxpp. IN: Leitão F, Teodósio E (Eds) (2023) Diversidade ecológica, pesca e comunidades do estuário dos Bons Sinais, Quelimane, Moçambique. XXpp. <https://doi.org/10.34623/m7jg-kf95>

Morais E, Costa E, Mualeque D, **Leitão F**. As comunidades piscatórias do estuário dos Bons Sinais. IN: Leitão F, Teodósio E (Eds) (2023). Diversidade ecológica, pesca e comunidades do estuário dos Bons Sinais, Quelimane, Moçambique. XXpp. <https://doi.org/10.34623/q530-5m59>

Costa E, Mocuba J, Mualeque D, Nobre D, **Leitão F**. Os peixes do estuário dos Bons Sinais. IN: Leitão F, Teodósio E (Eds) (2023). Diversidade ecológica, pesca e comunidades do estuário dos Bons Sinais, Quelimane, Moçambique. XXpp. <https://doi.org/10.34623/kzsr-a812>

Costa, E, Manuessa B, Morais E, Mualeque D, **Leitão F**. Os invertebrados marinhos do estuário dos Bons Sinais. IN: Leitão F, Teodósio E (Eds) (2023). Diversidade ecológica, pesca e comunidades do estuário dos Bons Sinais, Quelimane, Moçambique. XXpp. <https://doi.org/10.34623/37qw-sx29>

Esteves E, Anibal J, **Leitão F**. Boas-práticas de processamento e conservação de pescado. IN: Leitão F, Teodósio E (Eds) (2023). Diversidade ecológica, pesca e comunidades do estuário dos Bons Sinais, Quelimane, Moçambique. XXpp. <https://doi.org/10.34623/wzpw-6440>

### **11.3.3. Technical Manuals**

1. **Leitão F<sup>\*1</sup>**. 2017. *Manual de Biologia Aquática* 7º e 8.ª Classe do Curso de Auxiliar de Agricultura. República De Angola Ministério Da Educação Direcção Nacional Do Ensino Técnico Profissional.

English: Aquatic Biology technical Manual; 7th and 8th Class of the Agriculture Assistant Course. Republic Of Angola, Ministry of Education National Directorate Of Professional Technical Education

2. **Leitão F<sup>\*1</sup>**, Cerqueira M. 2017. *Manual de Introdução à Pesca e Aquicultura* 7º e 8.ª Classe do Curso de Auxiliar de Agricultura. República De Angola Ministério Da Educação Direcção Nacional Do Ensino Técnico Profissional.

English: Introduction to Fisheries and Aquaculture technical Manual; 7th and 8th Class of the Agriculture Assistant Course. Republic Of Angola, Ministry Of Education National Directorate Of Professional Technical Education

3. **Leitão F<sup>\*1</sup>.** 2017. *Manual de Ictiologia* 7º e 8.ª Classe do Curso de Auxiliar de Agricultura. República De Angola Ministério Da Educação Direcção Nacional Do Ensino Técnico Profissional.

English: Ichthyology technical Manual; 7th and 8th Class of the Agriculture Assistant Course. Republic Of Angola, Ministry of Education National Directorate Of Professional Technical Education

4. **Leitão F<sup>\*1</sup>.** 2017. *Manual de Ecologia de peixes e ambientes aquáticos tropicais* 7º e 8.ª Classe do Curso de Auxiliar de Agricultura. República De Angola Ministério Da Educação Direcção Nacional Do Ensino Técnico Profissional.

English: Fish ecology and aquatic environment technical Manual; 7th and 8th Class of the Agriculture Assistant Course. Republic Of Angola, Ministry Of Education National Directorate Of Professional Technical Education

5. Cerqueira MAC<sup>\*1</sup>, Barata MIJ, Ferreira HQ, **Leitão F.** 2017. *Manual de Reprodução Aquícola* 8º e 9.ª Classe do Curso de Auxiliar de Agricultura. República De Angola Ministério Da Educação Direcção Nacional Do Ensino Técnico Profissional.

English: Aquaculture Reproduction technical Manual; 7th and 8th Class of the Agriculture Assistant Course. Republic Of Angola, Ministry Of Education National Directorate Of Professional Technical Education

6. Cerqueira MAC<sup>\*1</sup>, Barata MIJ, Ferreira HQ, **Leitão F.** 2017. *Manual de Construções de Instalações Aquícolas* 8º e 9.ª Classe do Curso de Auxiliar de Agricultura. República De Angola Ministério Da Educação Direcção Nacional Do Ensino Técnico Profissional.

English: Construction of Aquaculture facilities technical Manual; 8th and 9th Class of the Agriculture Assistant Course. Republic Of Angola, Ministry Of Education National Directorate Of Professional Technical Education

7. Freitas CS<sup>\*1</sup>, **Leitão F.** 2017. *Manual de Tecnologia do pescado* 8º e 9.ª Classe do Curso de Auxiliar de Agricultura. República De Angola Ministério Da Educação Direcção Nacional Do Ensino Técnico Profissional. Construção de Instalações Aquícolas.

English: Fish Technology technical Manual; 8th and 9th Class of the Agriculture Assistant Course. Republic Of Angola, Ministry Of Education National Directorate Of Professional Technical Education

8. Cerqueira M<sup>\*1</sup>, Barata MIJ, Ferreira HQ, **Leitão F.** 2017. *Manual de Fundamentos de nutrição e patologia na aquicultura* 8º e 9.ª Classe do Curso de Auxiliar de Agricultura. República De Angola Ministério Da Educação Direcção Nacional Do Ensino Técnico Profissional. Construção de Instalações Aquícolas.

English: Nutrition and pathology concepts in aquaculture technical Manual; 8th and 9th Class of the Agriculture Assistant Course. Republic Of Angola, Ministry Of Education National Directorate Of Professional Technical Education

9. **Leitão F.** 2017<sup>\*1</sup>. *Manual de Tecnologia da Pesca* 7º e 8.ª Classe do Curso de Auxiliar de Agricultura. República De Angola Ministério Da Educação Direcção Nacional Do Ensino Técnico Profissional.

English: Fishing technology technical Manual; 7th and 8th Class of the Agriculture Assistant Course. Republic Of Angola, Ministry Of Education National Directorate Of Professional Technical Education.

**\*1 . O Ministério da Educação de Angola Não permite a divulgação destes Manuais (Manuais desenvolvidos para curso de Aquicultura e Pescas, que não pode ser divulgado em nenhuma circunstância a não ser para fins de informação deste concurso)**

10. **Leitão F.** 2021. Manual de Implementação de Recifes Artificiais. Projeto BUDOKIA: Projeto de Instalação de Recifes Artificiais Marinhos na zona costeira da ilha de São Tomé (São Tomé e Príncipe). ONGs MARAPA & Programa Tatô. São Tomé & Príncipe. Maio 2021. 66pp.

English: Manual for building artificial reefs. BUDOKIA project- Installation Project of Artificial Marine Reefs in the coastal zone of the island of São Tomé. Promoters: MARAPA & Programa Tatô. São Tomé & Príncipe. 66pp.

11. **Leitão F.** 2021. Manual de Formação em recifes artificiais. Projeto BUDOKIA: Projeto de Instalação de Recifes Artificiais Marinhos na zona costeira da ilha de São Tomé (São Tomé e Príncipe). ONGs MARAPA & Programa Tatô. São Tomé & Príncipe. Maio 2021. 105pp.

English: Training manual on artificial reefs (in portuguese). BUDOKIA project- Installation Project of Artificial Marine Reefs in the coastal zone of the island of São Tomé. Promoters: MARAPA & Programa Tatô. São Tomé & Príncipe. 105pp.

12. **Leitão F.** 2021. Manual de monitorização de recifes artificiais: conceitos gerais para implementação em campo. Projeto BUDOKIA: Projeto de Instalação de Recifes Artificiais Marinhos na zona costeira da ilha de São Tomé (São Tomé e Príncipe). ONGs MARAPA & Programa Tatô. São Tomé & Príncipe. Maio 2021. 105pp.

English: Leitão F. Artificial Reef Monitoring Manual: General Concepts for Field Implementation. BUDOKIA project- Installation Project of Artificial Marine Reefs in the coastal zone of the island of São Tomé. Promoters: MARAPA & Programa Tatô. São Tomé & Príncipe. 51pp.

13. Sousa F., Frazão H., Fernandes J., Boutov D., **Leitão F.**, Range P., Carrara G. 2023. CAPÍTULO 10 - Hydrological Characteristics Of The Submarine Groundwater Discharges At Olhos De Água, Algarve, Portugal – Freeze Project In book: Estudos em Ciências Exatas e da Terra: Desafios, Avanços e Possibilidades. DOI: 10.37572/EdArt\_24022374310

Link: <https://www.editoraartemis.com.br/artigo/33123/>

#### **11.4 Articles in non per review journals/proceedings/conference paper**

7. Leitão F. 2020. 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](https://www.ualg.pt/sites/default/files/inline-files/Revista_2020_final.pdf)
6. Sousa F., H. Frazão, G. Carrara, J. Fernandes, D. Boutov, **F. Leitão**, P. Range. 2018. “Hydrological Characteristics of the Submarine Groundwater Discharges at Olhos de Água, Algarve – FREEZE Project”, p. 37-38 de Atas do IX Simpósio da Margem Ibérica Atlântica – MIA 2018 (eds. P.P. Cunha, J. Dias, H. Veríssimo, L.V. Duarte, P. Dinis, F.C. Lopes, A.F. Bessa & J.A. Carmo), ISBN: 978-989-98914-2-5, 328 pp (em formato pdf).
5. Judite Fernandes, Gabriela Carrara, Pedro Terrinha, Fátima Sousa, **Francisco Leitão**, Marisa Loureiro, Cristina Roque, João Noiva, Dmitri Boutov, Pedro Range, Amélia Dill, Costa Almeida. 2015. Descargas do sistema aquífero Albufeira-Ribeira de Quarteira em meio marinho - Métodos e cartografia. 41-44. 10.º SEMINÁRIO SOBRE ÁGUAS SUBTERRÂNEAS. Évora, 9 e 10 de abril de 2015 | Universidade de Évora LIVRO DE RESUMOS do 10.º Seminário sobre Águas Subterrânea. ISBN: 978-989-8509-11-6
4. **Leitão, F.**, V. Baptista, K. Erzini, D. Iritani and D. Zeller. 2014 (invited by Dr. Daniel Pauly). 2014. Reconstruction of mainland Portugal fisheries catches 1950-2010 Working Paper Series, University of British Columbia, 8: 29pp. <http://www.searroundus.org/doc/publications/wp/2014/Leitao-et-al-Portugal.pdf>
3. 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). 8<sup>a</sup> Assembleia Luso Espanhola de Geodesia e Geofísica

2. Gaspar, M.B., **Leitão, F.** 2004. Pesca Ao Atum: 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.

English: Introduction of a new type of dredge in bivalve shellfisheries

1. Fonseca, L. C., Pereira, P., Gaspar, M., Moura, A., Carvalho, S., **Leitão, F.**, Drago, T., Falcão, M. 2004. Macrozoobentos e ambiente sedimentar da Lagoa de Óbidos (Costa Oeste de Portugal): um estudo de referência: Actas do 1º Seminário sobre Sistemas Lagunares Costeiros, Vila Nova de Santo André, 24-42pp. DOI: 10.13140/2.1.3765.3445

English: Macrozoobenthos and sedimentary environment of the Óbidos lagoon (Northwester coast of Portugal): a reference study.

## 11.5 Technical and Scientific Reports

34. 2023. Ovelheiro A, Monteiro J, Gonçalves P, Campinho M.A, Maio F., Teodósio M.A, **Leitão F.** Escalas de Maturação Macroscópica e Microscópica de espécies de caranguejo estuarinos de Portugal. *Relat. Cient.Téc. IPIMAR, digital Series* n.º x, xxpp. (submitted)

33. Leitão F, Pinto M, Albo- Puigserver M. 2022. Vulnerabilidade do setor das pescas às mudanças climáticas: medidas de adaptação (CLIMA-PESCA). Relatório Final do projeto CLIMA-PESCA. Universidade do Algarve. Faro, Gambelas 86pp.

English: Leitão F, Pinto M, Albo-Puigserver M. 2022. Vulnerability of the fisheries sector to climate change: adaptation measures (CLIMA-PESCA). Final Report of the CLIMA-PESCA project. University of the Algarve. Faro, Gambelas 86pp

32. Albo-Puigserver M, Pinto M, Thiebaut R, Leitão F. 2022. Conversas Clima-Pesca: Adaptação da pesca de Portugal às alterações climáticas: A visão do setor das pescas sobre as alterações climáticas e as medidas de gestão e adaptação que podem ser implementadas. Relatório de atividades das workshops do projeto CLIMAPESCA. Universidade Algarve. 22pp.

English: Climate-Fisheries Conversations: Adapting Portuguese fisheries to climate change: The fisheries sector's view of climate change and the management and adaptation measures that can be implemented. CLIMAPESCA project workshops. Algarve University. 22pp. (Technical report)

31. Chicharo L (coord), Leitão F. Sousa P. 2022. Acordo Específico De Colaboração Entre A Ada E A Ualg. Componente: Monitorização da Fauna Bentónica. Universidade do Algarve Setembro de 2022. 24pp

English: Chicharo L (coord), Leitão F, Sousa P. 2022. Specific AdA & A UALG agreement. Task: Benthic fauna assessment . Universidade do Algarve Setembro de 2022. 24pp

30. **Leitão F**, Monteiro J.N. 2022. Estudo da ecologia, biologia e dinâmica populacional dos pequenos caranguejos com interesse comercial existentes ao longo da costa Portuguesa: contributo para a regulamentação e gestão sustentada da pequena pesca e apanha de pequenos caranguejos CRUSTACEOS (CRUSTAPANHA). Relatório Final do projeto CRUSTAPANHA. Universidade do Algarve. Faro, Gambelas 124pp.
29. English: Leitão F, Monteiro J.N. 2022. Study of the ecology, biology and population dynamics of small crabs with commercial interest along the Portuguese coast: contribution to the regulation and sustainable management of small-scale fishing and the collection of small crabs CRUSTACEOS (CRUSTAPANHA). Final Report of the CRUSTAPANHA project. Universidade do Algarve. Faro, Gambelas 124pp.
28. Mocuba JJ, Teodósio MAA, **Leitão F**. 2020. 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. Technical report. MARG-1 PROJECT. WIOMSA – Western Indian Ocean Marine Science Association. 25pp. (Budget: 10000USD)
27. Araújo, M.B. (Coordenação), Antunes, S., Gonçalves, E.J., Oliveira, R., Santos, S. & Sousa Pinto, I., Alejandro Rozenfeld, Babak Naimi, David Abecasis, Diogo Alagador, Dora Neto, **Francisco Leitão**, Inês Garcia Martins, Joana Boavida-Portugal, João Moraes Mourato, Jorge Assis, Sandra Nogueira, Silvia Chemello. 2022. Biodiversidade 2030: Nova agenda para a conservação em contexto de alterações climáticas. Fundo Ambiental, Ministério do Ambiente e Ação Climática, Lisboa. 551pp. Suplementos. ISBN: 978-972-778-229-1 (suporte eletrónico) (Requested by: Environmental Fund, Ministry of Environment and Climate Action)  
English: Biodiversity 2030: New agenda for conservation in the context of climate change
26. Araújo, M.B. (Coordenação), Antunes, S., Gonçalves, E.J., Oliveira, R., Santos, S. & Sousa Pinto, I., Alejandro Rozenfeld, Babak Naimi, David Abecasis, Diogo Alagador, Dora Neto, **Francisco Leitão**, Inês Garcia Martins, Joana Boavida-Portugal, João Moraes Mourato, Jorge Assis, Sandra Nogueira, Silvia Chemello. 2022. Biodiversidade 2030: Nova agenda para a conservação em contexto de alterações climáticas. Universidade de Évora & Fundo Ambiental, Ministério do Ambiente e da Ação Climática, Lisboa. Vol. ISBN: 978-972-778-227-7 (suporte impresso); 978-972-778-228-4 (suporte eletrónico) (Requested by: Environmental Fund, Ministry of Environment and Climate Action)  
English: Biodiversity 2030: New agenda for conservation in the context of climate change

25. Leitão F. 2021. Diagnostic summary report on the possibilities and potential of creating artificial marine reefs on the north coast of the island of São Tomé (in Portuguese). BUDOKIA project- Installation Project of Artificial Marine Reefs in the coastal zone of the island of São Tomé. Promoters: MARAPA & Programa Tatô. São Tomé & Príncipe. April 2021. 55pp
24. Santos, M.N., Gaspar, M.B., Lino, P., Pousão-Ferreira, P., Ferreira, I., Regala, J.T., Constantino, R., Joaquim, J., Pereira, A., **Leitão, F.**, Erzini, K., Bentes, L., Abecasis, D., Gonçalves, J.M.S., Manzano, C., Cordero, M.L., Moreno, O., Manchado, M., Munoz, J.L., Jimenez, M.T., Palanco, I., 2005. GESTPESCA Final report- Bases científicas para a gestão de recursos pesqueiros de interesse comum. IPIMAR, Olhão, 90 pages + annexes.
23. Leitão F, Sroczynska K. 2018. Caracterização Da Qualidade Ecológica (Ribeiras Do Algarve) - Macroinvertebrados Bentónicos Como Bioindicadores: Relatório Desenvolvido Para O LES – Laboratório De Engenharia Sanitária, Campus Penha, Ano De 2018. 10pp. (Consultancy Technical Report)
22. M Palmer, B Morales-Nin, F Maynou, P Acadia, K Erzini, L Bentes, **F Leitão**. 2018. WP1. Ecological, socioeconomic and technical characteristics of discarding fisheries. Deliverable 1.6 Analysis of fisher's socio-economic behavior and practices Responsible beneficiary: 1-CSIC. Project MINOUW - Science, Technology, and Society Initiative to Minimize Unwanted Catches in European Fisheries. 42.pp (scientific Technical Report)  
 Link: <http://minouw-project.eu/wp-content/uploads/2018/06/D1-6-Analysis-of-fisher%20s-socio-economic-behavior-and-practices.pdf>
21. Tiago Carvalho, Rita Carvalho, Raquel Sousa, Rui Agostinho, José Martins Carvalho, Sónia Gil, Miguel Francisco, José Montez, Jorge Santos, Maria Alexandra Anica Teodósio, Ana Marília Barreira Claro, Joana Cruz, Ester Dias, Francisco Leitão, Nicholas Clarke. 2017. Projecto SOWAMO. Livro Resumo. Project AdapPT. 58 pp. (Consultancy Technical Report)
20. Lart, W. et al. 2003. Evaluation and improvement of shellfish dredge design and fishing effort in relation to technical conservation measures and environmental impact: [ECODREDGE FAIR CT98-4465] FINAL REPORT Volume 1: Review of Dredge Fisheries  
 Volume 2: Ecodredge Investigations, Volume 3: Bibliography (Link:  
<http://archimer.ifremer.fr/doc/00307/41851/>)
19. Chicharo, M.A.A.T, **Leitão F**, Range, P, Encarnação J. 2013. Monitorização do projeto “voluntariado ambiental para a água” auditoria aos resultados de macroinvertebrados marinhos como bioindicadores. Fevereiro 2014. Prestação De Serviços De Auditoria Científica. 27p. (Consultancy Technical Report)

English: environmental volunteering for water: audits of marine macroinvertebrates as bioindicators

18. Chicharo, M.A.A.T, **Leitão F**, Chicharo L.M.Z. 2012. Monitorização Do Projeto “Voluntariado Ambiental Para A Água”. Faculdade de Ciências e Técnologia. Universidade do Algarve. Outubro 2012. Prestação De Serviços De Auditoria Científica. 24p. (Consultancy Technical Report)

English: Report Evaluation of the project (Water Environmental Volunteering)

17. **Leitão F.** 2011. Resposta: Reclamação da Associação de Armadores de Pesca de Sagres ao desenvolvimento do Sistema de cultura suspensas de bivalves: regime de exploração extensiva em mar aberto (Aquasacrum). Setembro de 2011. 8p. (Consultancy Technical Report)

English: Response to problems aroused by fishermen's to the development of a shellfish farming structure for ostrea *Crassostrea angulata* in offshore waters off Algarve.

16. **Leitão F.** 2011. Plano de Monitorização da Qualidade da água, Sedimentos e Comunidade bentónica (dentro da directiva Quadro água) para estabelecimento de Culturas Marinhas (Aquasacrum Lda): Sistema de cultura suspensas de bivalves em regime de exploração extensiva em mar aberto. 18p. (Consultancy Technical Report)

English: Monitoring plan for development of shellfish farming for ostrea *Crassostrea angulata* in offshore waters off Algarve.

15. **Leitão F.** 2011. Sistema de cultura em mar aberto (cultura em Off-Shore) 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. (Consultancy Technical Report)

English: Environmental study on the effect of establishing an shellfish farming for ostrea *Crassostrea angulata* in offshore waters off Algarve (Incident Environmental study).

14. Chicharo L (General coordination),, **Leitão F** (scientific coordination); Máximo I, Ben-Hamadou R, Silva M.M. 2010. Caracterização da qualidade ecológica da água das ribeiras do Algarve: Macroinvertebrados bentónicos como bioindicadores. Relatório intercalar relativa ao ano de amostragem de 2010. International Center for Coastal Ecodynamics-UNESCO. 68pg. (Consultancy Technical Report)

English: Evaluation of the water quality at Algarve streams in 2010

13. Chicharo L, Hamadou RB, Range, Pedro, **Leitão F**, Piló D, Cruz J. 2010. Terminal de GNL de Sines Programa de monitorização dos factores ecológicos e biológicos

Marinhos. 2º Relatório de Monitorização – Junho de 2010. 50pp. (Consultancy Technical Report)

English: Evaluation of the impact of Liquid Natural Gas water discharges over coastal marine benthic communities in 2010.

12. Chicharo L (General coordination), **Leitão F** (scientific coordination),, Ben-Hamadou R. 2010. RELATORIO 2: Metodologias & Resultados dos trabalhos realizados para a “definição de estratégias para classificação Ecológica das águas costeiras e de transição do Algarve (RH8) ICCE – International Center for Coastal Ecodynamics-UNESCO. 7pg (Consultancy Technical Report)

English: Methodologies for the definition of strategies for the ecological classification of costal and transition waters in Algarve hydrographical basin (Report)

11. Chicharo L(General coordination), **Leitão F** (scientific coordination), Ben-Hamadou R, Chicharo A, Manjua A. 2009. Relatório intercalar de actividades do Projecto DIMEAGUA. Actividade 1. Revisão e acompanhamento das metodologias e métricas; análise estado actual DQA no Guadiana; definição de limites e identificação diferentes massas de água do Guadiana. 29pp. (Technical Report)

English: Revision and analysis of Methodological approach's for evaluation Guadiana basin within Water Frame Directive (Report)

10. Chicharo L (General coordination),, **Leitão F** (scientific coordination),, Ben-Hamadou R. 2009. RELATORIO 1: Metodologias dos trabalhos a desenvolver para a classificação ecológica das massas de água de transição e costeiras para a região hidrográfica do Algarve (RH8). ICCE – International Center for Coastal Ecodynamics. 7pg (Consultancy Technical Report)

English: Methodological approach's for evaluation of costal and transition waters in Algarve hydrographical basin (Report)

9. Chicharo L (General coordination),, **Leitão F** (scientific coordination); Máximo I, Benhamadou B, Silva M.M. 2009. Caracterização da qualidade ecológica da água das ribeiras do Algarve: Macroinvertebrados bentónicos como bioindicadores. Relatório intercalar relativa ao ano de amostragem de 2009. Internationa Center for Coastal Ecodynamics-UNESCO. 68pg. (Consultancy Technical Report)

English: Evaluation of the water quality at Algarve streams in 2009.

8. Chicharo., L; Hamadou RB., Range, Pedro., **Leitão F**., Piló D. 2009. Terminal de GNL de Sines Programa de monitorização dos factores ecológicos e biológicos Marinhos. Relatório de Monitorização – Junho de 2009. 55pp. (Consultancy Technical Report)

English: Evaluation of the impact of Liquid Natural Gas water discharges over marine benthic communities in 2009.

7. **Leitão, F** (scientific coordination). Saraiva, R. 2007. Socio-economic impact analysis. Soyo-fisheries communities. **Angola LNG Project. SINFIC**, Luanda. (Consultancy Technical Report)
6. Anon. 2003. MARE Report progress for the period from 2000-2002 of the project: Development and integrate study of Artificial systems in Portugal. Doc. IPIMAR/CRIPSul: 120 p. (IPMA- Portuguese Institute for Sea and Atmosphere; IPIMAR – Portuguese Institute for Sea and resources Research)
5. Gaspar, M.B.; **Leitão, F.**; Roque, C.; Monteiro , C.C. 2003. "Impacte da pesca de berbigão com draga de mão e faca de mariscar sobre a comunidade macrobentónica da Ria Formosa". *Relat. Cient.Téc. IPIMAR, digital Series* n.º 1, 23pp. (<http://www.inrb.pt/ipimar/divulgacao/bivalves-em-portugal/publicacoes-sobre-bivalves>)
4. Gaspar, M.; Chicharo, L.; Santos, M.; Chicharo, A.; Falcão, M.; Sobral, M.; Monteiro, C.; Alves, **F. Leitão**, F.; Regala, J. & Gouveia, I. 1999. Report from Portuguese partners on Task 1 of the EU project Ecodredge "Evaluation and improvement of shellfish dredge design and fishing in relation to technical conservation measures and environmental impact", EC FAIR-CT98-4465. Universidade do Algarve, Maio, 23p. (IPMA- Portuguese Institute for Sea and Atmosphere; IPIMAR – Portuguese Institute for Sea and resources Research)
3. Gaspar M., Monteiro C., Santos M., Falcão M., Sobral M., **Leitão F.** 2000. project ECODREDGE "Evaluation and improvement of shellfish dredge design and fishing in relation to technical conservation measures and environmental impact". Individual progress report of participant nº 8 (IPIMAR) for the period from 1/12/99 to 30/11/00. Report from Portuguese partners on Task 2 of the EU project Ecodredge "Evaluation and improvement of shellfish dredge design and fishing in relation to technical conservation measures and environmental impact", EC FAIR-CT98-4465. (IPMA- Portuguese Institute for Sea and Atmosphere; IPIMAR – Portuguese Institute for Sea and resources Research)
2. Gaspar, M.B., Santos, M.N., Falcão, M., **Leitão, F. 2000.** 2º Relatório Intercalar do projeto "ECODREDGE" - Evaluation and improvement of shellfish dredge design and fishing in relation to technical conservation measures and environmental impact". EU FAIR Contract nº 4465. (IPMA- Portuguese Institute for Sea and Atmosphere; IPIMAR – Portuguese Institute for Sea and resources Research)
1. Paula Pereira, Luís Cancela da Fonseca, Miguel Gaspar, Manuela Falcão, Ana Moura, Susana Carvalho, **Francisco Leitão**, Dora de Jesus. 2002. Reference study (macrofauna characterization) of the Ancão AR zone, prior artificial systems deployment. 31p. Technical intercalary project report of IPMA-IPIMAR (IPMA-

## 11.6 Posters

40. Mocuba J, Morais E, Mualeque D, **Leitão F.** 2023. Biologia Reprodutiva de peixes com interesse socio-económico local: *Oreochromis mossambicus*, *Otholites ruber*, *Pellona ditchela*. workshop encerramento do projeto Biofish-QoL nas comunidades piscatórias do estuário dos Bons Sinais. Presentation made in 13,14 e 16 off May at Murrubune, Gazelas and Icídua fishing communities. (poster).
39. Mocuba J, Morais E, Mualeque D, **Leitão F.** 2023. Biologia Reprodutiva de peixes com interesse socio-económico local: *Sillago sihama*, *Trichiurus lepturus*, *Stolephorus índicos*. workshop encerramento do projeto Biofish-QoL nas comunidades piscatórias do estuário dos Bons Sinais. Presentation made in 13,14 e 16 off May at Marrubune, Gazelas and Icídua fishing communities. (poster).
38. Mocuba J, Morais E, Mualeque D, **Leitão F.** 2023. Biologia Reprodutiva de peixes com interesse socio-económico local: *Sardinella albella*, *Thryssa vitriostris*, *Johnius dussumier*: workshop encerramento do projeto Biofish-QoL nas comunidades piscatórias do estuário dos Bons Sinais. Presentation made in 13,14 e 16 off May at Murrubune, Gazelas and Icídua fishing communities (poster).
37. Madiedo A, **Leitao F**, Ramos J. 2023. Detecting artificial reefs' usefulness for people using Industry 4.0 tools. International Congress of Engineering and Sustainability in the XXI century. 05-07-2023. Faro
36. D. Boaventura, A. Moura, **F. Leitão**, S. Carvalho3, J. Cúrdia, L. Cancela Da Fonseca ,M. N. Santos, C. C. Monteiro. 2005. An overview of experimental studies on macrobenthic colonization of artificial reefs (Algarve, Portugal) using non-destructive methods. April 2005. Conference: 8th International Conference on Artificial Reefs and Artificial Habitats. At: Biloxi, Mississippi, USA - 10-14 April 2005. Louisiana State University. DOI: 10.13140/RG.2.2.26146.17603
35. **Leitão F**, Batista V, Manuessa B, Mocuba J, Oliveira D, Teodósio M.A. 2018. Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique) “BIOFISH. Event at the Ismaili Center July 12 (Invited by Fundação para a Ciência e Tecnologia (FCT) and the Aga Khan Development Network (AKDN), with the presence of the Ministry of Science
34. Manuessa B, Borges T, **Leitão F.** 2018. 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. Primeiro Congresso De Biologia Marinha Dos Países De Expressão Portuguesa - Uma Ponte Entre Mares.

Faro, 24-26 de Janeiro 2018. Campus de Gambelas da Universidade do Algarve, Faro, Portugal.

33. Baptista V, Morais P, **Leitão F**, Wolanski E, Castanho S, Ribeiro L, Pousão-Ferreira P, Teodósio MA (2017). Habitat choice of temperate fish larvae: Is it a matter of personality? 24th Coastal Estuarine Research Federation (CERF) conference. Providence, RI (USA), November 4-9th.
32. Baptista, V., Teodósio, A., Chícharo, L., **Leitão, F.** 2016. A framework for assess vulnerability of coastal fisheries to climate change in Portuguese coast. Scientific Exhibition: Future Oceans and Natural Resources. Book of Abstracts Mares Conference Marine Ecosystems Health and Conservation February 1st - 5th 2016, Olhão Portugal. Pp 90
31. **Leitão F**, Baptista V. 2016. What are we losing? -An Economic perspective of fisheries discards in Portugal. Scientific Exhibition: Future Oceans and Natural Resources. Book of Abstracts Mares Conference Marine Ecosystems Health and Conservation February 1st - 5th 2016 Olhão Portugal. Pp 99
30. Ferreira R.L., Prazeres I., Silva M., **Leitão F.**, Bentes L., Borges TC, Bolten A.B. 2015. Sea turtle snorkling survey at príncipe island, west africa. 35th International Sea Turtle Symposium, Dalaman, Turkey; 01/2015
29. Martins M, **Leitão F**, Hall-Spencer J.M, Couto R, Martins G, Carreiro-Silva M, Monteiro J, Parra H, Peña V, Guilini K, Chícharo L, Range P. 2015. Chronic effects of ocean acidification on benthic assemblages: a study case in central Atlantic volcanic vents. Session on CO<sub>2</sub> vent studies at ASLO 2015. Aquatic Sciences Meeting Aquatic Sciences: Global and Regional Perspectives — North Meets South 22-27 February 2015 Granada, Spain (Link: <http://www.sgmeet.com/aslo/granada2015/viewabstract.asp?AbstractID=2668>)
28. Vaz, P; Delgado, S; Rodrigues, A; Furtado, A; Chícharo, A; Range, P; **Leitão, F**; Pinto, Paulo. 2014. O contributo do voluntariado ambiental para a água na qualidade da água e protecção dos ecossistemas do algarve. 12.º Congresso da Água/16.ºENASB/XVISILUBESA
27. Baptista, V. and **Leitão, F.**, 2013. Effect of environmental variables on catch rates in three different bivalve grounds off the Portuguese coast. Poster presented on 6th Scientific Meeting of Young Researchers of University of Porto, Porto, Portugal.
26. **F. Leitão**. 2012. Times-series analysis for study ecological trends in Portuguese fisheries over the last 60<sup>th</sup> years. Time-series analysis in marine science and applications for industry". 17 September to 21 September at the Centre nautique Moulin Mer in Logonna-Daoulas, Brittany, France. A Europole Mer Gordon-like Conference at the Crossroad of Marine Science. <http://archimer.ifremer.fr/doc/00120/23116/20963.pdf>
25. P. Range, D. Piló, R. Ben-Hamadou, M. Chícharo, **F. Leitão**, D. Matias, S. Joaquim, T. Drago, A.P. Oliveira, L. Chícharo. **2010.** Composition and diversity of infaunal

macrobenthic assemblages under increased  $p\text{CO}_2$  and reduced pH. Third International Symposium on the Ocean in a High-CO<sub>2</sub> World.

24. H. Ullah, F. **Leitão**, L. Baptista, V, Chicharo. 2012. Climatic Variability-Fisheries Nexus: Identifying the Role of Fresh Water Discharge on the Fisheries of W-Atlantic (Western Portugal) Under the Face of Climate Change. Book of Abstracts, International meeting on marine resources, Peniche, Portugal 119p.

LINK: <http://www.immr.ipleiria.pt/>

23. Baptista, V, F. **Leitão**, H. Ullah, P. Range, Teixeira C, K. Erzini. 2012. Effects of climate change on marine bivalves fisheries in Algarve leeward (South Portugal). Book of Abstracts, International meeting on marine resources, Peniche, Portugal 118p.

LINK: <http://www.immr.ipleiria.pt/>

22. D. Piló, A. Chicharo, J. Encarnaçāo, F. **Leitão**, P. Range, L. Chicharo. 2012. *In situ* physiological state of intertidal benthic macroinvertebrates under the effect of groundwater discharges. ECSA 50. Estuarine Coastal and Shelf Association, Venice, Italy.

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

21. Cagarra G, Fernandes, J, Terrinha P, Amaral H, Noiva J, Duarte Henrique, Costa A, Condesso de Melo T, Stigter T, Bronzini S, **Leitão F**, Range P, Piló D, Encarnaçāo J, Chicharo A, Chicharo L, Sousa F, Nascimento A, Sebastião L, Pinheiro L, Gonçalves D, Magalhāes V, Azevedo L, Dill A, Monteiro J. P. 2012. FREEZE - Submarine FRESHwater dischargEs: characteriZation and Evaluation study on their impact on the Algarve coastal ecosystem. Portuguese Water congress 6 February 2012.

20. Duarte DNR, Blanton JO, Moreira da Silva M, Ferreira Ó, Reis MP, **Leitão F**, Neves PA, Fernandes F, Santana P, Metelo NR. 2011. MaréFormosa Project - Tidal propagation and energy dissipation in the Ria Formosa Coastal Lagoon system. 5<sup>th</sup> EuroLab. European Coastal Lagoon Symposium. University of Aveiro, 25 – 30 July, 2011. Link:

19. Radhouan Ben-Hamadou, Mateja Skerjanec, Natasa Atanasova, Darko Cerepnalkoski, **Francisco Leitão**, M. Alexandra Chicharo, Jesus Morales, Carlos Jimenez Garcia, Maria Jose Vargas, Francisco Sempere, Boris Kompare, Saso Dzeroski, Luís Chicharo. 2011. Spatial integrated modelling for assessing EQS of transitional ecosystems. 7th ECEM (European Conference on Ecological Modelling).

18. **F. Leitão**, C.M. Teixeira, I. Maximo, N. Metelo, L. Chicharo. 2011. Fisheries in mainland Portugal: Climatic influence on exploited marine fish assemblages ICES/NAFO Decadal Symposium 2011. ICES/NAFO Decadal Symposium 2011 Poster Presentations N°45 (Book of Abstracts).

17. **F. Leitão**, L. Chicharo. 2011. Assessing climatic effects on crustacean fishing trends. ICES/NAFO Decadal Symposium 2011. ICES/NAFO Decadal Symposium 2011 Poster Presentations N°46 (Book of Abstracts).
16. **Leitão F**, Ben-Hamadou R, Chicharo A, Manjua A, Morales J, Moreno O, Jimenez C, Malta Erik-Jan, Sempere F, Chicharo, L. 2010. DIMEAGUA (Development and Harmonization of commun indicators, metodologies and strategies for the application of the WFD to Guadiana Transitional and Coastal areas). In Estuarine & Coastal Sciences Association [ECSA 47]: Integrative tools and methods in assessing ecological quality in estuarine and coastal systems worldwide”, 14-19 September. Figueira da Foz-Portugal. p. 125 *in ECSA 47 Book of Abstracts*
15. Braga F, **Leitão F**, Gigante S, Máximo I , Ben-Hamdour R, Chicharo L. 2009. Freshwater Bioindicators. Inauguration session of international Center for Coastal Ecohydrology (ICCE-UNESCO), Olhão 4 September 2009.
14. Gigante S, **Leitão F**, Máximo I, Braga F, Ben-Hamdour R, Chicharo L. 2009. Assessing water quality and ecological status of Algarve (South Portugal) water courses using macroinvertebrates. Inauguration session of international Center for Coastal Ecohydrology (ICCE-UNESCO), Olhão 4 September 2009.
13. Gaspar, M.B., **Leitão, F.**, Santos, M.N., Chicharo, L., Dias, M.D., Chicharo, A., Monteiro, C.C., 2004. Mitigating the environmental impacts of clam dredging by modifying the gear design. 4th World Fisheries Congress, 2-6 May 2004, Vancouver, BC, Canada: 233-234 pp.
12. Tata-Regala, J., Gaspar, M.B., **Leitão F.**, Alves, F., Chicharo, L., Brand, A. 2004. General forager/scavenger aggregative behaviour towards Portuguese shallow-water clam-dredge tracks. XIII Simposio Ibérico de Estudios del Bentos Marino, 21-24 September 2004, Las Palmas, Gran Canaria, Spain: 175p.
11. **Leitão F.**, Miguel, N.S., Cúrdia J., Moura, A., Carvalho S., Falcão M., Carlos C.M. Impact of artificial reefs deployment on the surrounding benthic macrofauna off the Algarve coast (Southern Portugal). 8<sup>th</sup> International conference on Artificial Reefs and Artificial Habitats, Biloxi. April 2005.
10. Moura, A., Cúrdia J., Carvalho S., Boaventura, D., **Leitão F.**, Fonseca, L.C., Santos, M.N., Monteiro, C.C. Benthic succession within an artificial reef on the south of Portugal – one year study; April 2005. Conference: 8th International Conference on Artificial Reefs and Artificial Habitats. At: Biloxi, Mississippi, USA - 10-14 April 2005. DOI: 10.13140/RG.2.2.21951.87201
9. Cúrdia, J., Moura, A. Boaventura, D., Carvalho, S., Pereira, P., Cancela da Fonseca, L., **Leitão, F. M.**, M. Santos, N., Monteiro, C. C. Macrofaunal colonization of artificial reefs in the South of Portugal. EMBS 39<sup>th</sup> European Marine Biology Symposium”, 21 – 24 Julho de 2004. Artificial habitats and the restoration of degraded systems.
8. **Leitão F.**, Santos, M.N., Moura A., Cúrdia J., Monteiro C.C. 2004. Contribution of the Algarve Artificial reefs (Southern Portugal) in the feeding diet of *Diplodus sargus* (L.).

- 1758).” EMBS 39<sup>th</sup> European Marine Biology Symposium”, 21 – 24 Julho de 2004. Artificial habitats and the restoration of degraded systems. 11(3): 131.
7. A. Moura, D. Boaventura, J. Cúrdia, S. Carvalho, L. Cancela da Fonseca, **F. M. Leitão**, M. N. Santos, C. C. Monteiro. Effect of depth on macrobenthic colonization of artificial reefs in the South of Portugal. EMBS 39<sup>th</sup> European Marine Biology Symposium”, 21 – 24 Julho de 2004. Artificial habitats and the restoration of degraded systems. 11(3): 66.
  6. D. Boaventura, A. Moura, **F. Leitão**, S. Carvalho, S. Cúrdia, P. Pereira, L. Cancela da Fonseca, M. Santos, C. Costa Monteiro. Macrofauna colonisation of artificial reef groups with different age on the southern coast of Portugal (Ancão, Algarve). EMBS 39<sup>th</sup> European Marine Biology Symposium”, 21 – 24 Julho de 2004. . Artificial habitats and the restoration of degraded systems. 11(3): 125.
  5. Boaventura D., Moura A., **Leitão F.**, Carvalho S., Cúrdia J., Pereira P., Cancela da Fonseca L., Santos M., Costa Monteiro C. 2003 Macrofauna colonisation of artificial reef groups with different age on the southern coast of Portugal (Ancão, Algarve). EMBS38- 39<sup>th</sup> European Marine Biology Symposium”, 8 – 12 Setembro de 2003. Artificial habitats and the restoration of degraded systems.
  4. **Leitão F.** 2003. Contribuição dos recifes artificiais (RAs) da costa Algarvia na Ecologia trófica de Sparídeos. Seminário de doutorandos da Universidade do Algarve. 17 Dezembro
  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- 38<sup>th</sup> European Marine Biology Symposium”, 8 – 12 Setembro 2003: 227.
  1. Gaspar M.B., **Leitão F.**, Santos M.N., Chicharo L., Dias M.D., Chicharo M.A., Monteiro C.C. 2003. Influence of dredge efficiency and selectivity on macrobenthic mortality. EMBS38- 38<sup>th</sup> European Marine Biology Symposium”, 8 – 12 September 2003. Management and Conservation.

## **11.7 Oral presentations/communications**

57. Camelo A, **Leitão F**, Jorge Ramos. 2023. Análise sazonal dos padrões de circulação de embarcações de pesca e recreio em redor de recifes artificiais em portugal. XIII Encontro da Rede BRASPOR 2023. 25 a 28 de Outubro de 2023 (Accepted).

56. Ramos J, Camelo A, **Leitão F**. 2023. Compreender e gerir as dinâmicas e interações dos intervenientes com os recifes artificiais: o caso algarvio XIII Encontro da Rede BRASPOR 2023, Cascais, 25 a 28 de Outubro de 2023 (Accepted).
55. Pinto M, Albo-Puigserver M, Bueno-Pardo J, Teodósio M.A, **Leitão F**. 2023. Fishing for Climate Resiliency: A participatory approach to develop adaptation measures to cope with climate change. ICYMARE, 18 - 23 September 2023, Oldenburg.
54. Monteiro JN, Roa-Ureta RH, Ovelheiro A, Teodósio MA, **Leitão F**. The Crab Fishery in Portugal Rebuilding the past Assessing the present Planning the future. ICYMARE18 - 23 September 2023, Oldenburg.
53. Ramos, J. & Leitão, F. (2023). Deployed... so what!? Are artificial reefs still useful decades after they were sunk? XXV Conference of the European Association of Fisheries Economists (EAFFE-2023), May 30 – Jun 01, 2023, Athens, Greece: Oral Presentation.
52. Albo-Puigserver M, Thiebaut R, Pinto M, Bueno-Pardo J, Teodósio M.A, **Leitão F**. 2023. Climate-Fishing Conversations: participatory evaluation of adaptation measures to climate change in fisheries in Portugal. IX Congresso internacional de Agroecologia, session: .P5 Sembrando iniciativas con potencial transformador en el sector pesquero. Palma, Spain  
  
English: Albo-Puigserver M, Thiebaut R, Pinto M, Bueno-Pardo J, Teodósio M.A, **Leitão F**. 2023. Climate-Fishing Conversations: participatory evaluation of adaptation measures to climate change in fisheries in Portugal. IX International Congress of Agroecology, session: P5 Planting initiatives with transformative potential in the fishing sector. Palma, Spain
51. **Leitão F**. Nuno J. 2022. CRUSTAPANHA: 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. Congresso da Pequena Pesca. Centro Autárquico de Quarteira. 5 de Dezembro de 2022 (convidado por DOCAPESCA, Orador Principal)  
  
**English: Leitão F**. Nuno J. 2022. CRUSTAPANHA: Contribution to the sustainable management of small-scale CRUSTACEAN fisheries: Study of the ecology, biology and population dynamics of small crabs with commercial interest existing along the Portuguese coast. Small Fishing Congress. Quarteira Municipality Centre. December 5, 2022 (invited by DOCAPESCA, Keynote Speaker)
50. **Leitão F**, Pinto M, Albo-Puigserver M, Cánovas F, Ito P, Teodósio M.A. 2022. CLIMA-PESCA: Vulnerabilidade do setor das pescas às mudanças climáticas: medidas de adaptação (CLIMA-PESCA). 26 October. “ADEPE e os projetos de promoção e desenvolvimento do território e da sua comunidade”. Adepe - Associação para o Desenvolvimento de Peniche. Webinar 2: (invited by Adepe, Keynote Speaker: Association for the Development of Peniche)  
Link: <https://www.youtube.com/watch?v=ytS0Fwy3jO0&feature=youtu.be>

English: Vulnerability of the fisheries sector to climate change: adaptation measures (CLIMATE-PESCA). Adepe - Association for the Development of Peniche.

49. **Leitão F.** 2022. Impacts 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 by IPMA diretor, Keynote 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).

48. 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.

47. **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.

46. 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. 4TH WORLD SMALL-SCALE FIHERIES CONGRESS SERIES - EUROPE, MALTA, 12-14. September.

45. 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. ICES ANNUAL SCIENCE CONFERENCE 2022, 19-24 September, IRELAND.

44. Albo-Puigserver M, Thiebaut R, Pinto M, Bueno-Pardo J, Teodósio M.A, **Leitão F.** 2022. Adaptation to climate change of fisheries in Portugal: participatory evaluation of measures. ICES ANNUAL SCIENCE CONFERENCE 2022, 19-24 September, IRELAND.

43. 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, 19-24 September, IRELAND.

42. **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. ICES ANNUAL SCIENCE CONFERENCE 2022, 19-24 September, IRELAND.

41. 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.
40. 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).
39. 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*

38. **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 Speaker by SCIAENA ONG. Link: <https://youtu.be/TcQ6h8eM7Pk>

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

37. Albo-Puigserver, M., Bueno-Pardo, J., Pinto, M., Monteiro, J.N., Ovelheiro, A., Teodósio, M.A., **Leitão, F.** 2021. 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://imbizo.info/imbizo-6-recordings-workshop-3/>

36. 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

35. **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/cmolhao/videos/489651438957684>

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

34. **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)
33. **Leitão F.** 2020. Vulnerabilidade das pescas às f. *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) Lisbon26 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) Lisbon26 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 climxicas 26 fevereiro 2020\\_1.pdf](https://www.ipma.pt/pt/media/noticias/documentos/2020/Agenda_Seminario_CC_IPMA - CERES - Alteraxes climxicas 26 fevereiro 2020_1.pdf)

32. **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](http://encontrociencia.pt/files/2019/1530_SC_08_FranciscoLeitao.pdf)

31. 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.

30. **Leitão F.** (2019) Integrative approach for enhance quality of live in fishing communities of the ‘Bons Sinais’ estuary (Mozambique) “BIOFISH – QoL. February 18, 2019 (INVITED by School of Marine and Coastal Sciences (Eduardo Mondlane University)

29. 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* (Forskål, 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*

28. 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.
27. 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.
26. **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. (INVITED speaker)
25. **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.<sup>º</sup> Concurso FCT & Aga Khan (INVITED by Fundação para a Ciência e Tecnologia – FCT - Portuguese President of Science and Technology)
24. **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)
23. **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)
22. **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).

21. 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.
20. **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.
19. **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)
18. 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)
17. 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).
16. **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)
15. **Leitão F**. 2012. Ecossistemas Costeiros e Marinhos. “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.

14. 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. TEMPRIIV2012 - International Conference on Temporary Rivers. 12-14 September. University of Évora, Portugal.

13. **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>

12. **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.arhalgarve.pt/site/parameters/arhalgarve/files/File/upload/Encontros\\_VA\\_A/2011/2ERVAA\\_25\\_26Nov\\_2011.pdf](http://www.arhalgarve.pt/site/parameters/arhalgarve/files/File/upload/Encontros_VA_A/2011/2ERVAA_25_26Nov_2011.pdf).

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

11. 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).

10. 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 6<sup>th</sup> World Fisheries Congress Sustainable Fisheries in a Changing World. Edinburgh, Scotland. Book of Abstracts. Pg5

9. **Leitão F.**, Teixeira C., Roberts J., Chicharo L. 2012. Ecological trends in Portuguese fish assemblage's over the last 60ths. Proceedings of the 6<sup>th</sup> 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.

8. **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).

7. 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.

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](http://www.Sylvestris.org/seminar.html)). Sylvestre Fundation, *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). *8<sup>th</sup> 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). *38<sup>th</sup> 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.1zcrjdft0>

## **12. Works as referee for peer review journals**

- Peer J
- 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)
- Fishes MDPI
- Diversity MDPI
- Marine Pollution Bulletin
- Marine and Environmental Research

### **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 Helyion (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](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).  
ERASMUS+ICM2019. UALG Alliances

**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](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. Advisor 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 Commision Board/evaluator panel: “Fundo Regional da Ciência e Tecnologia, Secretaria Regional da Cultura, da Ciência e Transição Digital, Governo Regional dos Acores.” 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 juri, Commision Board/evaluator panel: "Blue growth Program" Scientific Areas: 1) Environmental monitoring and maritime surveillance; 2) Fisheries and Aquaculture. Directore General for Maritime Policy (Direção Geral das Políticas Marinas-DGPM); Evaluation pannel of “SGS#1Programa Crescimento Azul no âmbito do Mecanismo Financeiro do Espaço Económico Europeu (MFEEE) 2014-2021 no âmbito do Aviso # 1, Ref 1, pannel 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 pesca 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 Savage Paradise. 51-62. May 30, 2019.

3. UALGZine N°13. 2020. Estudar a vulnerabilidade do setor da pesca em Portugal IN UALGZine N°13. 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](https://www.ualg.pt/sites/default/files/inline-files/Revista_2020_final.pdf)

English: Leitão 2021. UALGZine N°13. 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](https://www.ualg.pt/sites/default/files/inline-files/Revista_2020_final.pdf)

5. Leitão F. 2023. Estudo «Clima-Pesca» revela a vulnerabilidade do sector das pescas às Alterações Climáticas. 4 de março de 2023 - 14:59:  
Link: <https://barlavento.sapo.pt/destaque/estudo-da-ualg-mostra-efeitos-das-alteracoes-climaticas-nas-pescas>

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

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.ccmar.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.ccmar.ualg.pt/news/projeto-de-recifes-articiais-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 Noticias (“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. Projeto Biofish dá a conhecer o Estuário dos Bons Sinais (vídeo interview): 25 May 2023. English Title: Biofish Project reveals the “Good Signs” Estuary (video interview)Link: <https://regiao-sul.pt/diarionline-tv/projeto-biofish-da-a-conhecer-o-estuario-dos-bons-sinais-video/626213>
18. Entrevista: CNN Portugal: “Pesca em Portugal não sai afetada, pelo contrário”. English Title: “Fishing in Portugal is not affected, on the contrary”; 12 July 2023. Link: <https://cnnportugal.iol.pt/bacterias/mar/mais-bacterias-novas-especies-e-outros-riscos-como-a-agua-do-mar-mais-quente-vai-afetar-a-nossa-saudade-e-alimentacao/20230712/64ac1bedd34e3ae5b8c38eb5>

### 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.90segundosdecienca.pt/episodes/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.tvm.co.mz/site/ondemand/informacao/2101903100000500321/jornal\\_da\\_tarde](http://online.tvm.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 2022. CNN Portugal Direto. 7 de Novembro de 2022. O efeito das alterações climáticas na pesca. 10:30. <https://www.youtube.com/watch?v=3ea-BdzFOjo&feature=youtu.be>

5. Leitão 2023. RTP1. Portugal em Direto. Reportagem: O efeito das alterações climáticas na pesca. 22 de Fevereiro 17:56. <https://www.rtp.pt/play/p11143/e674252/portugal-em-direto/1129371>

English: Leitão 2023. RTP1. “Portugal em Direto”- Reporting: The effect of climate change on fisheries. 22 February 17:56. <https://www.rtp.pt/play/p11143/e674252/portugal-em-direto/1129371>

### 17.4. Paginas Web

Projeto CLIMAPESCA: <https://climapesca.com/>

Projeto CLIMFISH: <https://climfish.eu/>

Projeto BIOFISH-QoL: <https://biofishqol.eu/>

Projeto CRUSTAPANHA: <https://crustapanha.eu/>

#### 17.4. Series/documentaries Documentários RTP

Os conteúdos dos documentários a baixo apresentados foram desenvolvidos no âmbito de projetos como Investigador Principal, sendo FL o coordenador científico destes documentários.

1. “2050 que mar é este. O que me espera?” Programa Bombordo (produção MardeHistorias)-Teaser: <https://www.youtube.com/watch?v=POcSclOnPV4>
2. “A pesca do caranguejo”. Programa Bombordo (produção MardeHistorias) -Teaser: <https://www.youtube.com/watch?v=0fLVYidRghg>
3. “Bons Sinais”. Programa Bombordo (produção MardeHistorias; two separated 30 minutes documentaries will be made regarding this program) - Teaser: <https://youtu.be/bru1NSqJcNk>

#### **18. Membership (Associations)**

- Ordem dos Biólogos (National Biology science Association, until 2017)
- Associação Portuguesa para o Estudo e Protecção de Eslamosbrânicos (<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