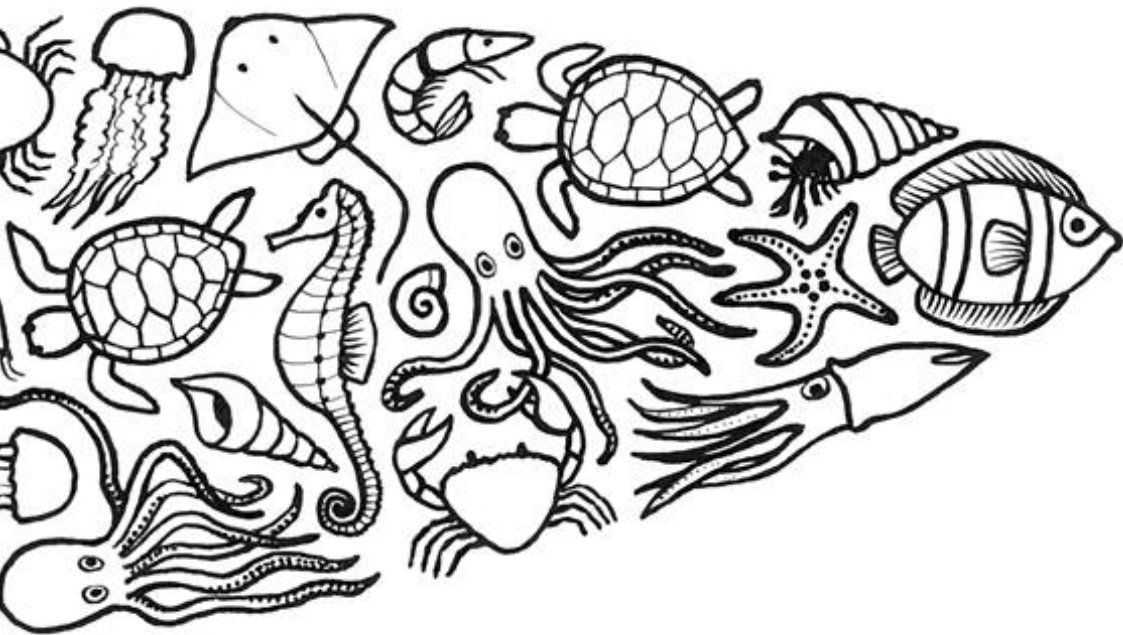


# *Curriculum vitae*

January 2024



**Pedro Morais**

Marine Biologist, PhD

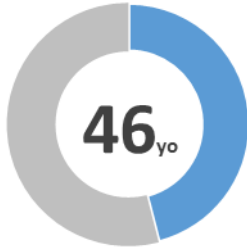
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# CV AT-A-GLANCE

Pedro Morais, PhD

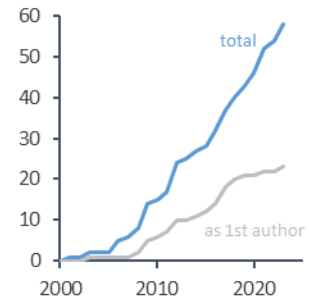


pmorais@ualg.pt

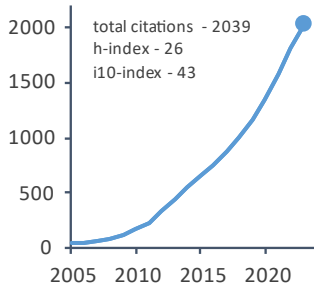
## PUBLICATIONS



## PAPERS



## CITATIONS



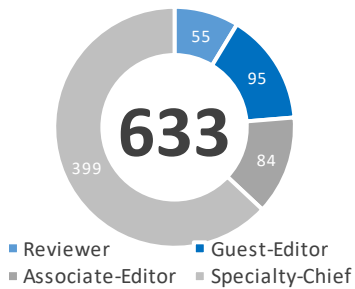
## PROJECTS



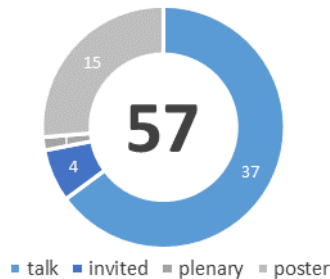
## BOOKS EDITED



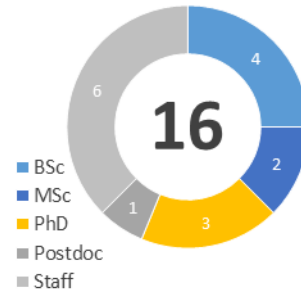
## EDITORIAL ACTIVITY



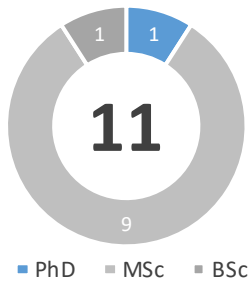
## PRESENTATIONS



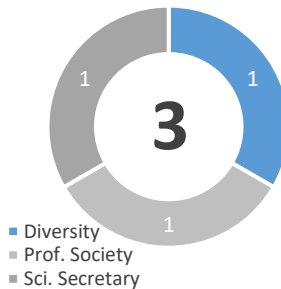
## ADVISOR



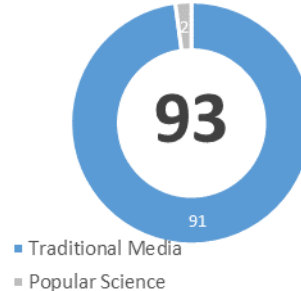
## EXAMINATION COMMITTEES



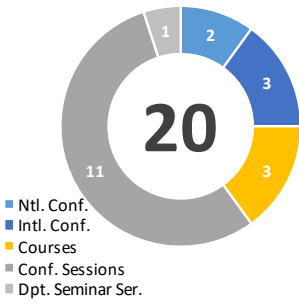
## SERVICE



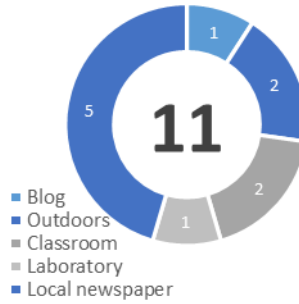
## IN THE NEWS



## DISSEMINATION



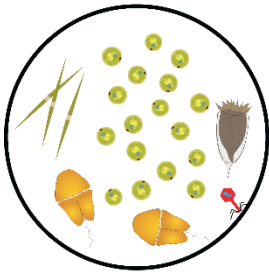
## OUTREACH



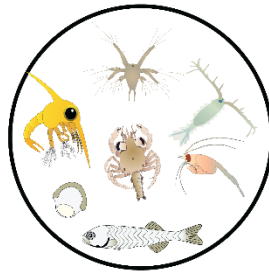
## LANGUAGES



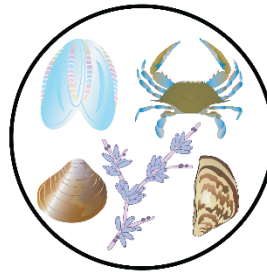
## STUDIED TAXA



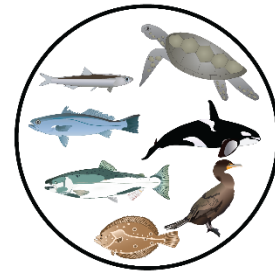
**PROTISTOPLANKTON**  
and virioplankton



**ZOOPLANKTON**

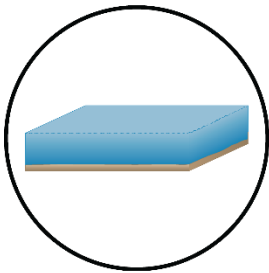


**INVERTEBRATES**

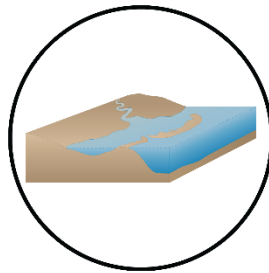


**VERTEBRATES**

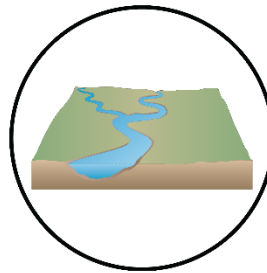
## STUDIED ECOSYSTEMS



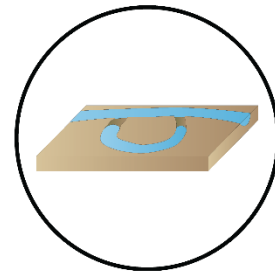
**OCEAN**



**ESTUARINE ECOSYSTEMS**  
estuaries  
coastal lagoons  
coastal lakes



**RIVERS**  
**INTERMITTENT STREAMS**



**OXBOW LAKES**

## 1. CONTACTS AND ONLINE PLATFORMS

Name | Pedro Morais

Email | pmorais@ualg.pt

Website | pedro-morais.com

[Google Scholar](#)

[Loop](#)

[ORCID](#)

[ResearcherID](#)

[ResearchGate](#)

[Scopus](#)

## 2. ACADEMIC DEGREES

- 2008**      **Ph.D. in Ecology, specialty in Population Ecology (University of Algarve, Portugal)**  
Thesis Title | The life cycle of *Engraulis encrasicolus sensu lato* in the Guadiana estuary: Ecology, Ecohydrology and Biology. 238p.
- 2000**      **Degree in Marine Biology and Fisheries (University of Algarve, Portugal)**  
Thesis Title | Phytoplankton dynamics in the saline lake of Quinta do Lago. 67p.

## 3. AWARDS

- 2023**      William A. Niering Award for Outstanding Educator. Awarded by the Coastal and Estuarine Research Federation in November 2023.

## 4. CAREER

- Since 2022**      Training Coordinator at Sustainable and Smart Aquaculture Collaborative Lab (S2AquaCoLab, Portugal) since January 2022 (remote position).
- 2021-2022**      Postdoc scholar – courtesy appointment – at Florida International University (FL, USA)
- 2019-2021**      Independent research consultant.
- 2017-2019**      Assistant Specialist at the University of California, Berkeley (USA) – Sacramento River winter-run Chinook salmon life history diversity, growth, and habitat use among varying hydroclimatic regimes (April 2017 – April 2019). Delta Science Program – Delta Stewardship Council (CA, USA).Funding: 260k USD.
- 2016**      Research assistant at the ECOREACH Lab (Ecology and Restoration of Riverine, Estuarine, and Coastal Habitats) in the Centre of Marine Sciences (University of Algarve) (CCMAR/BI/0021/2016) (September – December 2016).
- 2014-2015**      Post-doc scholarship “The effects of non-native species on host-parasite relationships” funded by the Czech Science Foundation (September 2014 – December 2015).

- 2014** Post-doc scholarship funded by the Marine and Environmental Research Centre (CIMA, University of Algarve) within the framework of the FCT program “INCENTIVO” (INCENTIVO/MAR/UI0350/2014) (July – September 2014).
- 2008-2014** Post-doc scholarship “Influence of the non-indigenous bivalve *Corbicula fluminea* (Muller, 1774) on the ecosystem functioning of two Portuguese estuaries” (SFRH/BPD/40832/2007) funded by the Foundation for Science and Technology (Portugal) (April 2008 – March 2014).
- 2006-2007** Research assistant at the Ecophysiology Lab (Interdisciplinary Centre of Marine and Environmental Research, University of Porto) in the framework of project “Study of European Conger life cycle (*Conger conger*) through DNA analysis and elemental and isotopic determination of otoliths” (POCI/MAR/58837/2004) funded by the Foundation for Science and Technology (Portugal) (September 2006 – August 2007).
- 2001-2005** Ph.D. scholarship “Population dynamics of *Engraulis encrasicolus* (Linnaeus, 1758) in the Guadiana estuary and adjacent coastal area” (SFRH/BD/5187/2001) funded by the Foundation for Science and Technology (Portugal) (December 2001 – November 2005).
- 2000-2001** Research assistant at the Ecohydrology and Restoration of Estuarine and Coastal Habitats Group (Centre of Marine Sciences, University of Algarve) in the framework of project ERIC “The effect of river inflow changes on the ichthyofauna of Douro, Tejo and Guadiana estuaries and adjacent coastal areas. Ecological and socioeconomic predictions” funded by the Foundation for Science and Technology (Portugal) (FCT/P/MAR/15263/1999) (November 2000 – November 2001).
- 2000** Research assistant at the Ecohydrology and Restoration of Estuarine and Coastal Habitats Group (Centre of Marine Sciences, University of Algarve) in the framework of project ODIANA-FEDER- “Valorization of fisheries resources in the Guadiana estuary”, funded by the Coordination Commission of the Algarve Region (April 2000 – October 2000).
- 1999-2000** Research assistant at the Microbiology Lab (Marine and Environmental Research Centre, University of Algarve) in the framework of project OMEX “Ocean Margin Exchange Processes” funded by the European Commission (MAS3-CT97-0076) (January 1999 – March 2000).

## 5. TEACHING

### 5.1. HIRED PROFESSOR

- 2001-2002** Invited-assistant professor at the University of Algarve (Portugal) and lecturing the laboratory and field classes of Biological Oceanography I (Marine Biology and Fisheries- 3rd year, 2nd semester) and Biological Oceanography (Oceanography- 3rd year, 2nd semester).

### 5.2. INVITED LECTURER

- 2016** Invited to give a 60-minute lecture on the *Biophysical processes leading to the ingress of temperate fish larvae into estuarine nursery areas*.  
Discipline: Biological Oceanography; Degree: Biology, University of Algarve, Portugal.  
Professor responsible for the class: Alexandra Teodósio (mchichar@ualg.pt).
- 2013** Invited to give a 60-minute lecture on *Merging anchovy eggs data into a hydrodynamic model towards an assessment tool for estuarine ecohydrological management*  
Master degree: Ecohydrology, University of Algarve, Portugal.  
Professor responsible for the class: Luís Chicharo (lchichar@ualg.pt).
- 2013** Invited to give a 60-minute lecture on *Otoliths- a 'black box' that discloses the migration of fish and ancient climate*.  
Master degree: Ecohydrology, University of Algarve, Portugal.  
Professor responsible for the class: Luís Chicharo (lchichar@ualg.pt).
- 2013** Invited to give a 60-minute lecture on *Otoliths- a 'black box' that discloses the migration of fish and ancient climate*.  
Discipline: Benthic and Nektonic Processes; Degree: Marine Biology, University of Algarve, Portugal.  
Professor responsible for the class: Alexandra Teodósio (mchichar@ualg.pt).
- 2011** Invited to give a 60-minute lecture on *Otolith chemistry as means to study de migration of teleost fish*.  
Master degree: Ecology, University of Minho, Portugal.  
Professor responsible for the class: Ronaldo Sousa (rg.eco.sousa@gmail.com).
- 2009** Invited to give a 60-minute lecture on *River inflow as a structuring factor of estuarine ecosystems*.



Discipline: Benthic and Nektonic Processes; Degree: Marine Biology, University of Algarve, Portugal.

Professor responsible for the class: Alexandra Teodósio (mchichar@ualg.pt).

**2009**

Invited to give a 60-minute lecture on the *Relevance of otolith chemistry in the study of benthic and nektonic processes for teleost fish*.

Discipline: Benthic and Nektonic Processes; Degree: Marine Biology, University of Algarve, Portugal.

Professor responsible for the class: Alexandra Teodósio (mchichar@ualg.pt).

### 5.3. TEACHING ASSISTANT

**1997-2006** Between 1997 and 2006, I served as Teaching Assistant in the classes of Biological Oceanography, Ecology, and Marine Microbiology which were led by the following teachers: Ana Barbosa (abarbosa@ualg.pt), Helena Galvão (hgalvao@ualg.pt), Luís Chicharo (lchichar@ualg.pt), Maria Alexandra Teodósio (mchichar@ualg.pt), Maria Helena Marques (retired).

## 6. ADVISOR OF STUDENTS

### 6.1. ADVISOR OF POST-DOCS

**2015-2017** Co-advisor of the postdoc work of Sofia Ester e Sousa de Aguilar Dias, entitled “Disentangling the patterns and processes of fish life history plasticity using the European flounder as a model species” (SFRH/BDP/104019/2014). Interdisciplinary Centre of Marine and Environmental Research (University of Porto, Portugal). Funded by the Foundation for Science and Technology.

### 6.2. ADVISOR OF PH.D. STUDENTS

**2021-2025** Co-advisor of the Ph.D. thesis of Inês Maria Ferreira de Morais Cerveira entitled “Estuarine nursery dependence and connectivity of commercial fish populations off the SW-Iberian Peninsula”. University of Algarve, Portugal. Funded by the Foundation for Science and Technology.

**2016-2024** Co-advisor of the Ph.D. thesis of Domingas Perpétua André Quiatuhanga, entitled “Feeding ecology, age, growth, and condition of *Sardinella aurita* Valenciennes, 1847

and *Sardinella maderensis* (Lowe, 1838) off the Angolan coast”. University of Algarve, Portugal.

**2019-2023** Co-advisor of the Ph.D. thesis of João Pedro Encarnação entitled “The new aquatic fauna of southern Portugal and their potential as economic resources: a collaborative merge between science and society”. University of Algarve, Portugal. Funded by the Foundation for Science and Technology. Waiting for the date to be defended.

### 6.3. ADVISOR OF M.SC. STUDENTS

**2017-2019** Advisor of the M.Sc. thesis of Inês Maria Ferreira de Morais Cerveira entitled “Aspects of weakfish *Cynoscion regalis* (Pisces: Sciaenidae) ecology in its non-native range and its potential as a new fishing resource”. University of Algarve, Portugal.

**2014** Co-advisor of the M.Sc. thesis of Maria José Parra Parra entitled “Recruitment ecology of pelagic fishes: jellyfish impact in nursery areas and habitat selection”. University of Algarve (Portugal) and University of Cadiz (Spain).

### 6.4. ADVISOR OF B.SC. STUDENTS

**2013-2014** Advisor of the B.Sc. thesis (Marine Biology, University of Porto, Portugal) of Catarina Malheiro, entitled “Flounder life history plasticity in estuaries distributed along a small latitudinal range”.

**2009-2010** Co-advisor of the B.Sc. thesis (Marine Biology, University of Algarve, Portugal) of Janaína Bon de Sousa, entitled “Otolith microstructure analysis to determine the growth of fish larvae in Ria Formosa lagoon”.

**2009-2010** Co-advisor of the B.Sc. thesis (Marine Biology, University of Algarve, Portugal) of João Pedro Natário Teixeira entitled “Diet and ectoparasites of Cobitidae (Osteichthyes) in Rio Minho estuary: *Cobitis calderoni* and/or *Cobitis paludica*?”. University of Algarve, Portugal.

**2003-2004** Co-advisor of the B.Sc. thesis (Marine Biology and Fisheries, University of Algarve, Portugal) of Ana Margarida da Silva Faria, entitled “Study of the ichthyoplankton dynamics in the Guadiana estuary and adjacent coastal area”.

## 6.5. ADVISOR OF UNDERGRADUATE STUDENTS

- 2013** Andreia Ovelheiro- MSc student from the University of Algarve that took a 42-hour course on the “Preparation of otoliths for microchemistry analyzes” as part of the discipline “Experimental works in Marine Biology”. CIIMAR (Porto, September 30th-October 4th)
- 2012-2013** Vítor Gilberto, undergraduate student (University of Porto, Portugal), processed and analyzed the pellets of cormorants collected for the project “Cormorant-Impact” (PP/IJUP2011/230).
- 2001** Onildo Varela, student from Quarteira Professional School, conducted a work on the identification of estuarine fishes.
- 2001** Vítor Fernandes, student from Quarteira Professional School, conducted a work on the identification of estuarine crustaceans.

## 7. MEMBER OF EXAMINATION COMMITTEES

- 11** Stefanie Mayer – Linking patterns in phylogeny, traits, and space: Black Sea Fishes. M.Sc. Thesis. International Master of Science in Marine Biological Resources. Ghent University (Belgium). August 2023.
- 10** Léa Sauvanet – Variability in the lipid composition of *Cerastoderma edule* and associated species along an intertidal gradient in the Bay of Saint-Brieuc (English Channel). M.Sc. Thesis. International Master of Science in Marine Biological Resources. Ghent University (Belgium). August 2023.
- 9** Viktoria Kiralyova – Modelling transport and growth of Atlantic mackerel (*Scomber scombrus*) early life stages in the Northeast Atlantic region. M.Sc. Thesis. International Master of Science in Marine Biological Resources. Ghent University (Belgium). August 2023.
- 8** Pedro Sáez Gómez – Freshwater fish distribution in a highly disturbed Mediterranean basin: ecological basis for management and conservation. Ph.D. Thesis. University of Huelva (Spain). January 18, 2023.
- 7** Alessia Scarpa – Ontogenetic changes in diet and habitat use in tiger sharks (*Galeocerdo cuvier*) determined by stable isotope analysis. M.Sc. Thesis. International Master of Science in Marine Biological Resources. Ghent University. August 27, 2020.

- 6 Berenike Dietrich – Stalked barnacle *Pollicipes pollicipes* recruitment ecology. M.Sc. Thesis. International Master of Science in Marine Biological Resources. Ghent University. August 27, 2020.
- 5 Francesca Alice Hale – An investigation into the impact of ocean acidification on the recruitment, respiration, photosynthesis and calcification of coralline algae. M.Sc. Thesis. International Master of Science in Marine Biological Resources. Ghent University. August 27, 2020.
- 4 Ana Gabriela Pereira Ramos – Characterization of the organic matter sources supporting ichthyoplankton production in the River Minho estuary. M.Sc. Thesis. Master in Ecology, University of Minho (Portugal). March 2016.
- 3 Maria Luís Santos – Contribution for a better ecological understanding of the freshwater phase of sea lamprey (*Petromyzon marinus*) in the Minho River watershed. M.Sc. Thesis. Master in Ecology, University of Minho (Portugal). January 2016.
- 2 Hadayet Ullah – Establishing relationships between climatic variables and coastal fisheries of Portugal. M.Sc. Thesis. Erasmus Mundus Master Course in Ecohydrology. University of Algarve (Portugal). September 2012.
- 1 Ana Margarida da Silva Faria – Study of the ichthyoplankton dynamics in the Guadiana estuary and adjacent coastal area. B.Sc. Thesis. Marine Biology and Fisheries. University of Algarve (Portugal). May 2004.

## 8. RESEARCH

### 8.1. RESEARCH PROJECTS – RESEARCHER

- 2023** Team member and project's leading writer of the project "Bridging Maryland (USA) to Algarve (Portugal) with the Blue Crab Study Case: Blue Innovation in Teaching and Entrepreneurship" (UP BLUE BRITE) sponsored by Luso-American Development Foundation. Funding – 25k EUR.
- 2022-2024** Coordinator of the training program of project "Technical capacitation in aquaculture – CAPTAQUA" funded by EEA Grants. Funding – 50 k EUR.
- 2021-2023** Research team member articulating the launch of an online program on Blue Growth with eight courses for the project "Preparing the new OCEAN economy 2030: the BLUE ROUTE of discovery" sponsored by EEA Grants. Funding – 100 k EUR.

- 2021-2023** Research team member of the project “Blue growth in the Iberian Atlantic axis” (POCTEP-Interreg ATLAazul ”0755\_ATLAZUL\_6\_E). Funding – 50k EUR.
- 2021-2024** Research team member of the project “Little Fish-STP - São Tome and Príncipe little fish threatened - a big opportunity to unravel this fishery resource in tropical islands” (FCT AGA-KHAN/541718158/2019). Funding – 242.5k EUR.
- 2020-2021** PI of the project “Using social media and citizen science platforms to study the diversity of marine mammals and turtles in poor-monitored regions”. Blue Young Talent program by CIIMAR (University of Porto). Funding – 3.6k EUR.
- 2018-2020** Researcher of the project Luanda Water Front: “Luanda Bay Ecological Assessment: A waterfront based approach to reduce environmental risks and increase quality of life”. Aga Khan Development Network and Foundation for Science and Technology (Portugal). Funding – 297k EUR.
- 2017-2019** Assistant Specialist at the University of California, Berkeley (USA) – “Sacramento River winter-run Chinook salmon life history diversity, growth, and habitat use among varying hydroclimatic regimes” (April 2017 – February 2019). Funding – 260k USD.
- 2012-2015** Researcher and co-PI of the project ECO-IAS (Ecosystem-level impacts of an invasive alien species) (PTDC/AAC-AMB/116685/2010). Foundation for Science and Technology (Portugal). Funding – 198k EUR.
- 2012-2013** PI of the project Cormorant-Impact (Predation impact of great cormorants *Phalacrocorax carbo* on fish species with great economic value in Minho estuary (PP/IJUP2011/230). Funding – 1.5k EUR.
- 2008-2010** Researcher of the project Dyncyano (“Dynamics of cyanobacteria and cyanotoxins in the Guadiana estuary”) (PTDC/AMB/64747/2006). Foundation for Science and Technology (Portugal). Funding – 108.2k EUR.
- 2005-2006** Researcher of the project GuadiRia- “Nutritional condition of fish larvae in major marine protected areas in South of Portugal (Guadiana estuary and Ria Formosa) (POCTI/BIA-BDE/59200/2004). Foundation for Science and Technology (Portugal). Funding – 42.6k EUR.

## 8.2. RESEARCH PROJECTS – INFORMAL COLLABORATIONS

- 2009-2011** Support during the fieldwork of the Ph.D. thesis of Ester Dias – “Characterizing connectivity of estuarine benthic food webs using a stable isotope approach.”

- 2003** Support during the field work of the Ph.D. thesis of Joaquim Teodósio “Population dynamic and characterization of the physiological and biochemical condition of the Asiatic clam *Corbicula fluminea* (Muller) in the Guadiana hydrographic basin” (SFRH/BD/8490/2002).
- 2002-2003** Coordination of sampling and laboratory work of the project ERIC (FCT/P/MAR/15263/1999), in the Guadiana estuary and adjacent coastal area.
- 2000-2001** Support to the plankton group during the field work of the Guadiana – CCMAR project.
- 1998-1999** Support during the field work of the project DG XIV (97/106) – “Biological assessment of bivalve stocks of *Ruditapes decussatus* and *Cardium edule* in the Ria Formosa.”
- 1998** Field work and cooperation with IHERA (“Instituto de Hidráulica, Engenharia Rural e Ambiente”) in a hydrogeological study, using marine bacteriophages as tracers in the aquifer of Castelo de Vide (Portagem (Portugal), April 27th to May 1st).
- 1997-1998** Field work and laboratory support to the project INTERREG (15/REG II/6/96) – “General characterization of the Guadiana estuary ecosystem as a base for the assessment of environmental changes impact.”

### 8.3. OCEANOGRAPHIC CRUISES

- 2006** NRP D. Carlos I. CIMA Cruise- Oceanographic cruise made in the framework of project GUADIRIA. Portimão - Portimão (October, 1-5).
- 1999** R/V Belgica. Oceanographic cruise achieved in the context of project OMEX: A Coruña - A Coruña (September, 4-19).
- 1999** NRP Almeida Carvalho. Oceanographic cruise achieved in the context of project OMEX. Leixões - Alfeite Naval Base (May, 10-29).
- 1998** R/V Professor Shtokman. Oceanographic cruise achieved in the context of project OMEX. A Coruña -A Coruña (August, 1-12).

### 8.4. MANAGEMENT OF RESEARCH ASSISTANTS

- 2014** Ester Dias. Laboratory technician hired within the framework of project ECO-IAS (PTDC/AAC-AMB/116685/2010). Finished.
- 2014** Cátia Luís. Laboratory technician hired within the framework of project ECO-IAS (PTDC/AAC-AMB/116685/2010). Finished.

- 2012-2014** Jacinto Cunha. Laboratory technician hired within the framework of project ECO-IAS (PTDC/AAC-AMB/116685/2010). Finished.
- 2013-2014** Iolanda Rocha. Laboratory technician hired within the framework of project ECO-IAS (PTDC/AAC-AMB/116685/2010). Finished.

## 9. SCIENTIFIC OUTPUT

### 9.1. THESES

- 2007** The life cycle of *Engraulis encrasicolus sensu lato* in the Guadiana estuary: ecology, ecohydrology, and biology. Ph.D. thesis. University of Algarve. Faro. 238p.
- 2000** Phytoplankton dynamics in the saline lake of Quinta do Lago (original title in Portuguese: Dinâmica da comunidade fitoplanctónica no lago da Quinta do Lago). B.Sc. thesis in Marine Biology and Fisheries. University of Algarve. Faro. 67p.

### 9.2. BOOKS

- 2016** Morais P, Daverat F (Eds.) (2016) An Introduction to Fish Migration. CRC Press. USA. 307p. Print ISBN: 978-1-4987-1873-8. eBook ISBN: 978-1-4987-1874-5. doi: 10.1201/b21321.

### 9.3. ARTICLES IN PEER-REVIEWED JOURNALS

\* equal contribution as the 1st author

- 57** **Morais P**, Sturrock A, Phillis CC, Whitman G, Carlson SM, Johnson RC (to be submitted February 2024) Droughts delay juvenile salmon migration timing and truncate habitat use diversity. *Global Change Biology*.
- 56** Encarnação J, Teodósio MA, **Morais P** (in press) The arrival of a non-indigenous ecosystem engineer to a heavily invaded and flow-regulated estuary in southern Portugal. *BioInvasions Records*.
- 55** Costa E, Encarnação J, Teodósio MA, **Morais P** (2023) Aquatic species shows asymmetric distribution range shifts in native and non-native areas. *Frontiers in Marine Science* 10: 1158206. doi: 10.3389/fmars.2023.1158206.
- 54** Dias E, **Morais P**, Antunes C, Hoffman JC (2023) The benthic food web connects the estuarine habitat mosaic to adjacent ecosystems. *Food Webs* e00282. doi: 10.1016/j.fooweb.2023.e00282.

- 53 González-Ortegón E, Berger S, Encarnação J, Chairi H, **Morais P**, Teodósio MA, Oliva-Paterna FJ, Schubart CD, Cuesta JA (2022) Free pass through the Pillars of Hercules? Genetic and historical insights into the recent expansion of the Atlantic blue crab *Callinectes sapidus* to the west and the east of the Strait of Gibraltar. *Frontiers in Marine Science* 9:918026. doi: 10.3389/fmars.2022.918026.
- 52 Encarnação J, Krug LA, Teodósio MA, **Morais P** (2022) Coastal countercurrents increase propagule pressure of an aquatic invasive species to an area where previous introductions failed. *Biological Invasions*. doi: 10.1007/s12237-022-01092-8.
- 51 Cerveira I, Baptista V, Teodósio MA, **Morais P** (2021) What's for dinner? Assessing the value of an edible invasive species and outreach actions to promote its consumption. *Biological Invasions*. doi: 10.1007/s10530-021-02685-3.
- 50 **Morais P**, Afonso L, Dias E (2021) Harnessing the power of social media to obtain cetaceans biodiversity data in a poorly monitored area. *Frontiers in Marine Science*. doi: 10.3389/fmars.2021.765228.
- 49 Encarnação J, Baptista V, Teodósio MA, **Morais P** (2021) Low-cost citizen science campaign effectively monitors the rapid expansion of a marine invasive species. *Frontiers in Environmental Science*. doi: 10.3389/fenvs.2021.752705.
- 48 Cerveira I, Dias E, Baptista V, Teodósio MA, **Morais P** (2021) Unchanged feeding strategy and high trophic niche overlap with a congener species do not stop an invasive fish. *Regional Studies in Marine Science*. doi: 10.1016/j.rsma.2021.101969.
- 47 Baptista V, **Morais P**, Costa EMF, Cruz J, Teodósio MA (2021) The ocean in a box: Water density gradients and discontinuities in water masses are important cues guiding fish larvae towards estuarine nursery grounds. *Behavioral Ecology and Sociobiology*. 75: 67. doi: 10.1007/s00265-021-03005-4.
- 46 Encarnação J, Teodósio MA, **Morais P** (2021) Citizen science and biological invasions: a review. *Frontiers in Environmental Science* 8: 602980. doi: 10.3389/fenvs.2020.602980.
- 45 Baptista V, Costa EMF, 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: 67. doi: 10.1007/s00265-020-02841-0.



- 44 Dias E, Barros AG, Hoffman JC, Antunes C, **Morais P** (2020) Habitat use and food sources of European flounder larvae across an estuarine gradient. *Regional Studies in Marine Science* 34: 101196. doi: 10.1016/j.rsma.2020.101196.
- 43 Baptista V, Leitão F, **Morais P**, Teodósio MA, Wolanski E (2020) Modelling the ingress of a temperate fish larva into a nursery coastal lagoon. *Estuarine, Coastal and Shelf Science*. doi: 10.1016/j.ecss.2020.106601.
- 42 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. doi: 10.3390/d11100185.
- 41 **Morais P**, Gaspar M, Garel E, Baptista V, Cruz J, Cerveira I, Leitão F, Teodósio MA (2019) The Atlantic blue crab *Callinectes sapidus* Rathbun, 1896 expands its non-native distribution into the Ria Formosa lagoon and the Guadiana estuary (SW-Iberian Peninsula, Europe). *Bioinvasions Records* 8(1): 123-133. doi: 10.3391/bir.2019.8.1.14
- 40 Encarnação J, **Morais P**, Baptista V, Cruz C, Teodósio MA (2019) New evidence of marine fauna tropicalization off the southwestern Iberian Peninsula (Southwest Europe). *Diversity* 11(4): 48. doi: 10.3390/d11040048.
- 39 Amorim K, Mattmüller R, Algueró-Muñiz M, Meunier CL, Alvarez-Fernandez S, Boersma M, **Morais P**, Teodósio MA (2018). Winter river discharge may regulate summer estuarine jellyfish blooms. *Marine Ecology Progress Series* 591: 253-265. doi: 10.3354/meps12356.
- 38 **Morais P**, Reichard M (2018). Cryptic invasions: a review. *Science of the Total Environment* 613-614: 1438-1448. doi: 10.1016/j.scitotenv.2017.06.133.
- 37 **Morais P**, Cerveira I, Teodósio MA (2017) An update on the invasion of weakfish *Cynoscion regalis* (Bloch & Schneider, 1801) (Sciaenidae, Pisces) into Europe. *Diversity* 9(4): 47. doi: 10.3390/d9040047.
- 36 **Morais P**, Parra MP, Baptista V, Ribeiro L, Pousão-Ferreira P, Teodósio MA (2017) Response of gilthead seabream larvae to nursery odor cues along ontogeny as described by a new set of behavioral indexes. *Frontiers in Marine Science* 4: 318. doi: 10.3389/fmars.2017.00318.

- 35 **Morais P**, Dias E, Cruz J, Chainho P, Angélico MM, Costa JL, Barbosa A, Teodósio MA (2017). Allochthonous-derived organic matter subsidizes the food sources of estuarine jellyfish. *Journal of Plankton Research* 39: 870-877. doi: 10.1093/plankt/fbx049.
- 34 \* Seyer T, **Morais P**, 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. *Bioinvasions Records* 6: 331-337.
- 33 Dias E, **Morais P**, Faria A, Antunes C, Hoffman JC (2017) Benthic food webs support the production of sympatric flatfish larvae in estuarine nursery habitat. *Fisheries Oceanography* 26: 507-512. doi: 10.1111/fog.12212.
- 32 Lopes A, **Morais P**, Pimentel M, Rosa R, Munday P, Gonçalves E, Faria A (2016) Behavioural lateralization and shoaling cohesion of fish larvae altered under ocean acidification. *Marine Biology* 163: 243. doi: 10.1007/s00227-016-3026-4.
- 31 \* Teodósio MA, Wolanski E, Paris CB, **Morais P\*** (2016) Biophysical processes leading to the ingress of temperate fish larvae into estuarine nursery areas. *Estuarine, Coastal and Shelf Science*. 183: 187-202. doi: 10.1016/j.ecss.2016.10.022.
- 30 **Morais P**, Teodósio MA (2016). The transatlantic invasion of weakfish *Cynoscion regalis* (Sciaenidae, Pisces) into Europe. *Bioinvasions Records* 5: 259-265.
- 29 Dias E, **Morais P**, Cotter AM, Antunes C, Hoffman JC (2016) Estuarine consumers utilize marine, estuarine and terrestrial organic matter and provide connectivity among these food webs. *Marine Ecology Progress Series*. 554: 21-34. doi: 10.3354/meps11794.
- 28 **Morais P**, Parra MP, Marques R, Cruz J, Angélico MM, Chainho P, Lino Costa J, Barbosa A, Teodósio MA (2015). What are jellyfish really eating to support their potentially high condition? *Journal of Plankton Research* 37(5): 1036-1041. doi: 10.1093/plankt/fbv044.
- 27 Dias E, **Morais P**, Antunes C, Hoffman J (2014) Linking terrestrial and benthic estuarine ecosystems: Organic matter sources supporting the high secondary production of a non-indigenous bivalve. *Biological Invasions* 16: 2163-2179. doi: 10.1007/s10530-014-0655-8.
- 26 **Morais P**, Rufino MM, Reis J, Dias E, Sousa R (2014) Assessing the morphological variability of *Unio delphinus* Spengler, 1783 (Bivalvia: Unionidae) through geometric morphometry. *Journal of Molluscan Studies* 80: 17-23. doi: 10.1093/mollus/eyt037.

- 25 Encarnação J, Leitão T, **Morais P**, Piló D, Range P, Chícharo L, Chícharo MA (2013) Effects of inter-annual freshwater inflow shifts on the community structure of estuarine decapods. *Cahiers de Biologie Marine* 54: 181-189.
- 24 Muha TP, Chícharo L, **Morais P**, Pereira R, Ben-Hamadou R, Cruz J, Chícharo MAT (2012) The effect of distinct hydrologic conditions on the zooplankton community in an estuary under Mediterranean climate influence. *Ecohydrology and Hydrobiology* 12: 327-335. doi: 10.2478/v10104-012-0027-x.
- 23 Chícharo MA, Faria A, **Morais P**, Amaral A, Piló D, Chícharo L. (2012) Are tidal lagoons ecologically relevant to larval recruitment of small pelagic fish? An approach using nutritional condition and growth rate. *Estuarine, Coastal and Shelf Science* 112: 265-279. doi: 10.1016/j.ecss.2012.07.033.
- 22 \* Daverat F, **Morais P**, Dias E, Martin J, Fablet R, Babaluk J, Pécheyran C, Antunes C (2012) Plasticity of European flounder life history patterns discloses alternatives to catadromy. *Marine Ecology Progress Series* 465: 267-280. doi: 10.3354/MEPS09910.
- 21 Dias E, **Morais P**, Leopold M, Campos J, Antunes C (2012) Natural born indicators: great cormorant *Phalacrocorax carbo* (Aves: Phalacrocoracidae) as monitors of river runoff influence on estuarine ichthyofauna. *Journal of Sea Research* 73: 101-108. doi: 10.1016/j.seares.2012.06.012.
- 20 Correia AT, Ramos A, Barros F, Silva G, Hammer P, **Morais P**, Cunha RL, Castilho R (2012) Population structure and connectivity of the European conger eel (*Conger conger* L.) across the Northeastern-Atlantic and Western-Mediterranean: integration of molecular and otolith multielemental data. *Marine Biology* 159: 1509-1525. doi: 10.1007/s00227-012-1936-3.
- 19 **Morais P** (2012) Comments on Lowe et al. "Otolith microchemistry reveals substantial use of freshwater by Southern Flounder in the Northern Gulf of Mexico" (*Estuaries and Coasts* 34: 630-639). *Estuaries and Coasts* 35: 904-906. doi: 10.1007/s12237-011-9469-4.
- 18 **Morais P**, Martins F, Chícharo MA, Chícharo L, Lopes J (2012) Merging anchovy eggs abundance into a hydrodynamic model towards an assessment tool for estuarine ecohydrological management. *River Research and Applications* 28: 160-176. doi: 10.1002/rra.1443.

- 17 Sousa R, **Morais P**, Dias E, Antunes C (2011) Biological invasions and ecosystem functioning- Time to merge! *Biological Invasions* 13: 1055-1058. doi: 10.1007/s10530-011-9947-4.
- 16 **Morais P**, Dias E, Babaluk J, Antunes C (2011) The migration patterns of the European flounder *Platichthys flesus* (Linnaeus, 1758) (Pleuronectidae, Pisces) at the southern limit of its distribution range: Ecological implications and fishery management. *Journal of Sea Research* 65: 235-246. doi: 10.1016/j.seares.2010.11.001.
- 15 **Morais P**, Babaluk J, Correia AT, Campbell JL, Chícharo MA, Chícharo L (2010) Diversity of anchovy migration patterns in an European temperate estuary and in its adjacent coastal area: Implications for fishery management. *Journal of Sea Research* 64: 295-303. doi: 10.1016/j.seares.2010.04.001.
- 14 Chícharo L, Ben Hamadou R, Amaral A, Range P, Mateus C, Piló D, Marques R, **Morais P**, Chícharo MA (2009) Application and demonstration of the Ecohydrology approach for the sustainable functioning of the Guadiana estuary (South Portugal). *Ecohydrology and Hydrobiology* 9: 55-71. doi: 10.2478/v10104-009-0039-3.
- 13 Chícharo L, Faria A, **Morais P**, Amaral A, Mendes C, Chícharo MA (2009) How to sample larval fish for taxonomical and ecophysiological studies in shallower temperate coastal ecosystems? *Cahiers de Biologie Marine* 50: 311-318.
- 12 **Morais P**, Teodósio J, Reis J, Chícharo MA, Chícharo L (2009) The Asian clam *Corbicula fluminea* (Müller, 1774) in the Guadiana River Basin (southwestern Iberian Peninsula): Setting the record straight. *Aquatic Invasions* 4: 681-684. doi: 10.3391/ai.2009.4.4.
- 11 Chícharo MA, Leitão T, Range P, Gutierrez C, Morales J, **Morais P**, Chícharo L (2009) Alien species in the Guadiana Estuary (SE-Portugal/SW-Spain): *Blackfordia virginica* (Cnidaria, Hydrozoa) and *Palaemon macrodactylus* (Crustacea, Decapoda): potential impacts and mitigation measures. *Aquatic Invasions* 4: 501-506. doi: 10.3391/ai.2009.4.3.11
- 10 **Morais P**, Faria A, Chícharo MA, Chícharo L (2009) The unexpected occurrence of late *Sardina pilchardus* (Walbaum, 1792) (Osteichthyes: Clupeidae) larvae in a temperate estuary. *Cahiers de Biologie Marine* 50: 79-89.
- 9 **Morais P**, Chícharo MA, Chícharo L (2009) Changes in a temperate estuary during the filling of the biggest European dam. *Science of the Total Environment* 407: 2245-2259. doi: 10.1016/j.scitotenv.2008.11.037.

- 8 Sousa R, **Morais P**, Antunes C, Guilhermino L (2008) Factors affecting *Pisidium amnicum* (Müller, 1774) (Bivalvia: Sphaeriidae) distribution in the River Minho estuary: consequences for their conservation. *Estuaries and Coasts* 31: 1198-1207. doi: 10.1007/s12237-008-9090-3.
- 7 **Morais P** (2008) Review on the major ecosystem impacts caused by damming and watershed development in an Iberian Basin (SW-Europe) - focus on the Guadiana estuary. *Annales de Limnologie - International Journal of Limnology* 44: 69-81. doi: 10.1051/limn:2008012.
- 6 Chícharo MA, Amaral A, **Morais P**, Chícharo L (2007) Effect of sex on ratios and concentrations of DNA and RNA in marine organisms. *Marine Ecology Progress Series* 332: 241-245. doi: 10.3354/meps332241.
- 5 Wolanski E, Chícharo L, Chícharo MA, **Morais P** (2006) An ecohydrology model of the Guadiana Estuary (South Portugal). *Estuarine, Coastal and Shelf Science* 70: 132-143. doi: 10.1016/j.ecss.2006.05.029.
- 4 Faria A, **Morais P**, Chícharo MA (2006) Ichthyoplankton dynamics in the Guadiana and adjacent coastal area (SE-Portugal/SW-Spain). *Estuarine, Coastal and Shelf Science* 70: 85-97. doi: 10.1016/j.ecss.2006.05.032.
- 3 Chícharo MA, Chícharo L, **Morais P** (2006) Inter-annual differences of ichthyofauna structure of the Guadiana estuary and adjacent coastal area (SE Portugal/SW Spain): Before and after Alqueva dam construction. *Estuarine, Coastal and Shelf Science* 70: 39-51. doi: 10.1016/j.ecss.2006.05.036.
- 2 **Morais P**, Chícharo MA, Barbosa A (2003) Phytoplankton dynamics in a coastal saline lake (SE-Portugal). *Acta Oecologica* 24: S87-S96. doi: 10.1016/S1146-609X(03)00008-0.
- 1 Chícharo L, Chícharo MA, Esteves E, Andrade JP, **Morais P** (2001) Effects of alterations in freshwater supply on the abundance and distribution of *Engraulis encrasicolus* in the Guadiana estuary and adjacent coastal areas of south Portugal. *Ecohydrology and Hydrobiology* 1: 341-345.

#### 9.4. BOOK CHAPTERS

- 8 **Morais P**, Encarnação J, Teodósio MA, Domingues RB (2022) Uma viagem no tempo pelo estuário do Guadiana. In: D Moura et al. (Eds.). *Estuário do Rio Guadiana: investigando o passado, presente e o futuro*. Faro (Portugal). Universidade do Algarve.

- 7 **Morais P** (2021) Leading hypotheses about the influence of temperate marine fish larvae on recruitment variability that shaped larval ecology. pp.53-63. In: MA Teodósio, A Barbosa (Eds.). Zooplankton Ecology. CRC Press.
- 6 Dias E, Daverat F, **Morais P** (2019) European flounder. In: K Wilson, L Veneranta (Eds). 2019. Data-limited diadromous species – review of European status. ICES Cooperative Research Report No. 348. pp. 98-110. doi: 10.17895/ices.pub.5253
- 5 **Morais P**, Domingues RB (2017) A brief journey along time in the Guadiana estuary. In: D Moura et al. (Eds.). Guadiana River Estuary: investigating the past, present and future. Faro (Portugal). University of Algarve. pp. 105-111.
- 4 **Morais P**, Daverat F (2016) History of fish migration research. In: P Morais, F Daverat (Eds.). An introduction to fish migration. Boca Raton, Florida (USA). CRC Press. pp. 3-13. doi: 10.1201/b21321-3.
- 3 **Morais P**, Daverat F (2016) Definitions and concepts related to fish migration. In: P Morais, F Daverat (Eds.). An introduction to fish migration. Boca Raton, Florida (USA). CRC Press. pp. 14-19. doi: 10.1201/b21321-4.
- 2 **Morais P**, Daverat F (2016) Trends and challenges in fish migration research. In: P Morais, F Daverat (Eds.). An introduction to fish migration. Boca Raton, Florida (USA). CRC Press. pp. 20-25. doi: 10.1201/b21321-5.
- 1 **Morais P**, Martins F, Chícharo MA, Lopes J, Chícharo L (2013) MOHID as a tool to evaluate the impact of water discharge from dams on the advection of estuarine fish larval stages. In: M Mateus, R Neves (Eds.) Ocean modeling for coastal management – Cases studies with MOHID. IST Press. Lisbon. pp 143-160. doi: 10.13140/2.1.3356.1603.

## 9.5. SCIENCE OUTREACH ARTICLES

- 5 **Morais P**, Encarnação J, Teodósio MA, Dias E (2022) Aliens nos estuários do sul de Portugal (*Aliens in the estuaries of southern Portugal*). UALGoritmo 4(2): 25-31. [LINK](#).
- 4 **Morais P**, Encarnação J, Teodósio MA, Dias E (2021) Aliens from an underwater world. *Frontiers for Young Minds*. doi: 10.3389/frym.2021.646539.
- 3 **Morais P**, Dias E (2021) Estuaries, a happy place for fish. *Frontiers for Young Minds* 9:613862. doi: 10.3389/frym.2021.613862.
- 2 **Morais P**, Amorim K, Dias E, Cruz J, Barbosa A, Teodósio A (2019) Gelificação dos oceanos – e a culpa não é da alforreca. UALGoritmo 1: 29-33. [LINK](#)

- 1 **Morais P**, Dias E, Cerveira I, Carlson S, Johnson R, Sturrock AM (2018) How scientists unravel the secret migrations of fish. *Frontiers for Young Minds* 6: 67. doi: 10.3389/frym.2018.00067.

## 9.6. ARTICLES IN SCIENTIFIC MAGAZINES, NEWSLETTERS, AND BULLETINS

- 5 **Morais P**, Encarnação J, Cerveira I, Teodósio MA (2022) Estuarine biological invasions – A multidimensional problem tackled with innovative approaches. *ECO Magazine*. Special Issue: Marine Invasions. pp. 24-27.
- 4 Chícharo L, Chícharo MA, Ben-Hamadou R, **Morais P** (2008) Sustainable estuarine zone management for control of toxic blooms, invasive species and conserving biodiversity, Guadiana demonstration site, Portugal. *Globec International Newsletter* 12: 25-27.
- 3 Chícharo MA, Chícharo L, **Morais P**, Faria A (2008) Development of new methods for sampling and evaluation nutritional condition of marine fish larvae in estuarine and coastal areas. *Globec International Newsletter* 12: 16-17.
- 2 **Morais P**, Domingues R (2006) The Guadiana estuary- a journey through time. *ECSA Bulletin* 50: 8-10 (Bulletin of the Estuarine & Coastal Sciences Association).
- 1 Chícharo L, Chícharo A, Ben-Hamadou, R, **Morais P** (2005). *Ecohydrology in estuaries and coastal areas: the Guadiana estuary case*. In: *Water and Ecosystems: Water Resources Management in Diverse Ecosystems and Providing for Human Needs*. UNU/INWEH publications. 13p.

## 9.7. ORAL COMMUNICATIONS

💧 plenary talk

⌘ invited lecture

- 42 ⌘ **Morais P** (2022) Sustainable and Smart Aquaculture COLAB - contribution to capacity building in marine AFRICA. *One Sustainable Ocean | Ocean Science & Business2Sea*. United Nations Ocean Conference. June 30. Lisbon (online presentation).
- 41 💧 **Morais P** (2020) Taking the lead on the conservation efforts of Iberian fish: a challenge to SIBIC. VIII Iberian Congress of Ichthyology. June 15-19. Santiago de Compostela (Spain) – videoconference due to the COVID-19 pandemic.
- 40 **Morais P**, Paris C, Wolanski E, Teodósio MA (2019) Biophysical processes leading to the ingress of temperate fish larvae into estuarine nursery areas. 25th CERF Conference. Mobile, AL (USA), November 6.

- 39 Encarnação J, **Morais P**, Baptista V, Cruz J, Teodósio A (2019) Disclosing new evidence of marine fauna tropicalization with the help of citizen science. 25th CERF Conference. Mobile, AL (USA), November 5.
- 38 Baptista V, Cruz J, **Morais P**, Leitão F, Wolanski E, Teodósio MA (2019) How do white seabream *Diplodus sargus* (Linnaeus 1758) larvae find a coastal nursery? 5th International Marine Connectivity Conference. Aveiro (Portugal). September 23.
- 37 **Morais P**, Sturrock AM, Phillis CC, Whitman G, Carlson SM, Johnson RC (2018) Death on two legs: featuring the Sacramento River winter-run Chinook salmon during the 2012-2016 drought. Episode II. 10th Bay-Delta Science Conference. Sacramento, CA (USA), September 11.
- 36 Dias E, Daverat F, Selleslagh J, Fonseca MM, Antunes C, Wilson JM, Limburg KE, **Morais P** (2018) The prevalence of catadromy varies along the distribution range of an European flatfish species. VII Congresso Ibérico de Ictiologia. Faro (Portugal), June 14.
- 35 **Morais P**, Sturrock AM, Phillis CC, Whitman G, Carlson SM, Johnson RC (2018) Living to tell a drought story featuring the Sacramento River winter-run Chinook salmon. Episode I. 6th International Otolith Symposium. Keelung (Taiwan), April 16.
- 34 **Morais P**, Dias E, Daverat E, Antunes C (2017) Environmental education as a framework to support diadromous fish conservation and research. 24th CERF Conference. Providence, RI (USA), November 8t.
- 33 Cerveira I, Dias E, Teodósio MA, **Morais P** (2017) Aspects of weakfish *Cynoscion regalis* (Pisces: Sciaenidae) ecology in its non-native range and its potential as a new fishing resource. 24th CERF Conference. Providence, RI (USA), November 8.
- 32 Dias E, Daverat F, Selleslagh J, Malheiro C, Antunes C, Wilson JM, Limburg KE, **Morais P** (2017) Life history plasticity of a diadromous fish across its distribution range. 24th CERF Conference. Providence, RI (USA), November 8.
- 31 Dias E, Antunes C, **Morais P** (2016) Relevance of estuarine habitats for European flounder larvae. VIII Simpósio Ibérico sobre a Bacia Hidrográfica do Rio Minho. Vila Nova de Cerveira (Portugal), November 4. Talk prepared for a mixed audience of fishermen and scientists.
- 30 **Morais P**, Luís C, Cunha J, Silva Rocha I, Dias E, Antunes C, Sousa (2014) Can *Corbicula fluminea* (Bivalvia: Corbiculidae) (Müller, 1774) exert a significant top-down regulation on estuarine phytoplankton? NEOBIOTA 2014. Antalya (Turkey), November.



- 29 **Morais P**, Daverat F, Malheiro C, Dias E, Babaluk J, Pécheyran C, Antunes C (2014) European flounder life history plasticity: paranormal activity or the helpful insights of otolith microchemistry? 5th International Otolith Symposium. Mallorca (Spain) October 23.
- 28 Parra M, Marques R, Chaínho P, Angélico M, Cruz J, Morais P, Teodósio MA (2014) What are jellyfish really eating? ICES Annual Science Conference. La Coruña (Spain), September 18.
- 27 Dias E, **Morais P**, Antunes C, Hoffman J (2013) When gourmet food is not enough: Organic matter sources supporting the high production of *Corbicula fluminea* in an invaded estuary. 22nd CERF Conference. San Diego (USA), November 6.
- 26 **Morais P**, Daverat F, Dias E, Babaluk J, Martin J, Eon M, Fablet R, Pécheyran C, Antunes C (2013). Plasticity of European flounder life history patterns discloses alternatives to catadromy. 22nd CERF Conference. San Diego (USA), November 5.
- 25 **Morais P** (2013) Otoliths- a “black-box” that discloses the migration of fish and ancient climate. Seminários Avançados do CIMA. Faro (Portugal), July 10.
- 24 Gilberto V, Dias E, Antunes C, **Morais P** (2013) Review on the impact of great cormorants on European fisheries. 6º Encontro de Investigação Jovem da Universidade do Porto. IJUP 2013. Porto (Portugal), February 14.
- 23 \* **Morais P**, Ilarri M, Dias E, Sousa R (2012) Ecosystem level impacts of an invasive alien species - *Corbicula fluminea*. 4th Annual Zoological Congress of “Grigore Antipa” Museum of Natural History. Bucharest (Romania), November 23.
- 22 \* **Morais P** (2012) The impact of river flow changes in estuarine and coastal fish assemblages. Summer school of Ecohydrology. ICCE-UNESCO. Castro Marim (Portugal), July 27.
- 21 Dias E, **Morais P**, Antunes C, Hoffman JC (2012). Allochthonous organic matter subsidize the high secondary production of the invasive bivalve *Corbicula fluminea* in Minho estuary (N-Portugal). 50th ECSA Symposium. Venice (Italy). June 5.
- 20 Dias E, Hoffman JC, **Morais P**, Cotter AM, Campos J, Antunes C (2011) The importance of allochthonous subsidies to an estuarine food web along a salinity gradient. 21<sup>st</sup> CERF Conference. Daytona Beach (USA). November 7.
- 19 **Morais P**, Dias E, Babaluk J, Antunes C (2011) When otolith microchemistry analysis reveals the unexpected: The migration patterns of the European flounder *Platichthys*

- flesus* in a temperate estuary and the “sea-run mother” hypothesis. 21st CERF Conference. Daytona Beach (USA), November 10.
- 18 Dias E, **Morais P**, Leopold M, Campos J, Antunes C (2011) Natural born indicators: great cormorant *Phalacrocorax carbo* (Aves: Phalacrocoracidae) monitor ichthyofauna variation linked to river runoff. EEClima congress-Estuarines in a changing climate. Porto (Portugal), April 6.
- 17 **Morais P**, Dias E, Babaluk J, Antunes C (2010) The migration patterns of flounder in the Minho estuary. V Simpósio Ibérico sobre a Bacia Hidrográfica do Rio Minho. Vila Nova de Cerveira (Portugal), November 19. Talk prepared for a mixed audience of fishermen and scientists.
- 16 **Morais P** (2010) Síntese das alterações provocadas por barragens em estuários e zonas costeiras. 12º Encontro Nacional de Ecologia. Sociedade Portuguesa de Ecologia. Porto (Portugal), October 20.
- 15 ☞ **Morais P** (2008) Synthesis of the alterations caused by dams in estuaries and coastal areas. Internal seminar in “Centro Interdisciplinar de Investigação Marinha e Ambiental”. Porto (Portugal), December 14.
- 14 **Morais P** (2008) Síntese das alterações provocadas por barragens em estuários e zonas costeiras. IV Simpósio Ibérico sobre a Bacia Hidrográfica do Rio Minho. Vila Nova de Cerveira (Portugal), November 14. Talk prepared for a mixed audience of fishermen and scientists.
- 13 **Morais P** (2008) Otololith microchemistry studies in fisheries biology (Estudos de microquímica de otólitos em biologia pesqueira). III Encontro Nacional de Estudantes de Pós-Graduação em Ciências Biológicas. Faro (Portugal), September 4.
- 12 **Morais P**, Chícharo MA, Chícharo L (2007) The life cycle of *Engraulis encrasicolus sensu lato* in the Guadiana estuary: biology, ecology, and Ecohydrology (O ciclo de vida de *Engraulis encrasicolus sensu lato* no estuário do Guadiana: biologia, ecologia, and ecohidrologia). II Encontro Nacional de Estudantes de Pós-Graduação em Ciências Biológicas. Porto (Portugal), June 4.
- 11 ☞ **Morais P** (2007) *Engraulis encrasicolus sensu lato* life cycle in the Guadiana estuary. New technologies in the study of otoliths and its application in marine biology and fisheries. Porto (Portugal), January 22.

- 10 **Morais P**, Martins F, Chícharo MA, Lopes J, Chícharo L (2005) Merging anchovy eggs data into a hydrodynamic model towards estuarine ecohydrological management. 39th ECSA Symposium. Edinburgh (Scotland), September 7.
- 9 **Morais P**, Chícharo MA, Chícharo L (2004) River inflow as a structuring factor of abiotic parameters and biota in the Guadiana estuary and adjacent coastal area. 38th ECSA Symposium. Rouen (France), September 14.
- 8 Chícharo MA, **Morais P**, Chícharo L (2004) Influence of freshwater inflow changes on the ichthyofauna of Guadiana estuary and adjacent coastal area (SE-Portugal/SW-Spain). 38th ECSA Symposium. Rouen (France), September 15. I prepared and presented this talk in representation of MA Chícharo.
- 7 **Morais P**, Chícharo MA, Chícharo L (2004) River inflow as a structuring factor of abiotic parameters and biota in the Guadiana estuary and adjacent coastal area. Guadiana estuary Workshop. Castro Marim (Portugal), September 2.
- 6 **Morais P**, Chícharo MA, Faria A, Chícharo L (2003) The role of the Guadiana Estuary in the early development of *Sardina pilchardus* (Walbau, 1792): A hypothesis. II Plankton Symposium. Vigo (Spain), October 17.
- 5 **Morais P**, Barbosa A, Chícharo MA (2003) Bacterioplankton dynamics in a coastal saline lake. II Plankton Symposium. Vigo (Spain), October 16th.
- 4 Chícharo L, Chícharo MA, **Morais P** (2003) Effects of Guadiana river inflow on coastal fisheries. 4º Simpósio sobre a Margem Continental Ibérica Atlântica. Vigo (Spain), July 8. I prepared and presented this talk in representation of L. Chícharo.
- 3 **Morais P**, Chícharo MA, Barbosa A, (2001) Phytoplankton dynamics in a coastal saline lake (SE-Portugal). Plankton Symposium. Espinho (Portugal), September 21.
- 2 **Morais P** (2001) When did I start to think in Ecohydrology? Advanced Study Course- Ecohydrology across the scales- From molecular to landscape processes. Tresta Rządowa (Poland), August 22.
- 1 **Morais P**, Chícharo MA, Chícharo L (2000) Qual é o estado trófico do estuário do Guadiana? 3º Simpósio sobre a Margem Continental Ibérica Atlântica. Faro (Portugal), September 25.

## 9.8. POSTERS

- 15 Encarnação J, **Morais P**, Baptista V, Cruz J, Teodósio A (2019) Citizen science and social media contribute to the integration of marine invasive species into the blue economy. 42<sup>nd</sup> CIESM conference. Cascais (Portugal).
- 14 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 CERF conference. Providence, RI (USA).
- 13 **Morais P**, Rufino M, Reis J (2012) Assessing the morphological variability of *Unio delphinus* Spengler in the Guadiana basin (SW-Iberian Peninsula, Europe) through geometric morphometric analyses. International Meeting on Biology and Conservation of Freshwater Bivalves. Bragança (Portugal).
- 12 Teixeira J, **Morais P**, Dias E, Antunes C (2010) Dieta e ectoparasitas do verdemã *Cobitis paludica* no estuário do Rio Minho. V Simpósio Ibérico sobre a Bacia Hidrográfica do Rio Minho. Vila Nova de Cerveira (Portugal).
- 11 Chícharo MA, Leitão T, Range P, Gutierrez C, Morales J, **Morais P**, Chícharo L (2009) Alien species in the Guadiana Estuary (SE-Portugal/SW-Spain): *Blackfordia virginica* (Cnidaria, Hydrozoa) and *Palaemon macrodactylus* (Crustacea, Decapoda): potential impacts and mitigation measures. World Conference on Biological Invasions and Ecosystem Functioning. Porto (Portugal).
- 10 **Morais P**, Sousa R, Antunes C, Solan M (2008) Influência da amêijoia-asiática *Corbicula fluminea* (Müller, 1774) no funcionamento do ecossistema do estuário do Minho: O efeito da bioturbação. IV Simpósio Ibérico sobre a Bacia Hidrográfica do Rio Minho. Vila Nova de Cerveira (Portugal).
- 9 **Morais P**, Sousa R, Antunes C (2008) Changes of ecosystem functioning in estuaries as consequence of non-indigenous invasive species introductions. NEOBIOTA 2008 – towards a synthesis. Prague (Czech Republic).
- 8 Dias E, **Morais P**, Campos J, Antunes JC (2008) River inflow as a major determinant of great cormorant diet in Minho estuary. ECSA Local Meeting - Climate change impacts on South-European coastal ecosystems. Lisbon (Portugal).
- 7 **Morais P**, Faria A, Chícharo MA (2005) Realized ecological niche of ichthyoplankton in a temperate estuary and adjacent coastal area. III Plankton Symposium. Figueira da Foz (Portugal).

- 6 **Morais P**, Chícharo MA, Faria A, Chícharo L (2003) The use of Guadiana estuary during *Sardina pilchardus* (Walbau, 1792) early development. CIMAR Metting. Santarém (Portugal), 7-8 Novembro.
- 5 Chícharo L, Chícharo MA, **Morais P** (2003) Effects of Guadiana river inflow on coastal fisheries. 4<sup>th</sup> Symposium on the Atlantic Iberian Continental Margin. Vigo (Spain).
- 4 Chícharo L, Chícharo MA, **Morais P**, Esteves E, Andrade P (2001) Inter-annual variation in *Engraulis encrasicolus* eggs and larval abundance in the Guadiana estuary. Relation to river inflow variability. Plankton Symposium. Espinho (Portugal).
- 3 Chícharo MA, Chícharo L, Gouveia I, Condinho S, **Morais P**, Lourenço D, Constantino R (2001) Nutrientes no estuário do Guadiana: Flutuação espacial e temporal, num ano hidrológico atípico (1999-2000). “VI Congresso de Geoquímica dos Países de Língua Portuguesa” and “XII Semana de Geoquímica”. Faro (Portugal).
- 2 Chícharo L, Chícharo MA, Gouveia I, Amaral A, Condinho S, **Morais P**, Dias S (2000) Caracterização das comunidades planctónicas do estuário do Guadiana- sua relação com parâmetros físicos e químicos da água. II Congresso Ibérico sobre planeamento e gestão da água. Porto (Portugal).
- 1 Condinho S, **Morais P**, Amaral A, Dias S, Chícharo L, Chícharo MA (2000) Potencial cultivo de duas espécies de ostras (*Crassostrea* sp. e *Ostrea edulis*) no baixo estuário do Guadiana. 3<sup>rd</sup> Symposium on the Atlantic Iberian Continental Margin. Faro (Portugal).

## 9.9. PROJECT REPORTS

- 1 Chícharo L, Chícharo MA, Amaral A, Condinho S, Dias S, **Morais P**, Vaz Pinto G (2000) Valorização dos recursos pesqueiros do estuário do Guadiana. Relatório final do projecto ODIANA-VALPEG. Universidade do Algarve. Faro. 121p.

## 10. EDITORIAL ACTIVITY

### 10.1. EDITORIAL ROLES

- since 2023** Associate editor for Estuaries and Coasts since January 2023.
- since 2022** Interim specialty-chief editor of the Earth Sciences section of Frontiers for Young Minds since November 2022.
- since 2021** Associate editor for Fishes since July 2021.

- since 2020** Associate editor for *Frontiers in Marine Science* (Marine Biology section) since August 2020.
- since 2020** Specialty-chief editor of the Biodiversity section of *Frontiers for Young Minds* since May 2020.
- 2018-2020** Associate editor for *Frontiers for Young Minds* (Biodiversity section).

## 10.2. REVIEW EDITOR

- since 2017** Review-editor for *Frontiers in Marine Science* – “Marine Fisheries, Aquaculture and Living Resources” section.

## 10.3. GUEST-EDITOR

- 2021-2022** *Frontiers in Marine Science* – Biological Invasions in Marine and Estuarine Ecosystems. Guest-edited by Pedro Morais and Ester Dias.
- 2020-2022** *Frontiers for Young Minds* – Where the river meets the ocean: Stories from San Francisco Estuary. Guest-edited by Peggy Lehman, Frances Wilkerson, Theodore Flynn, Pedro Morais.
- 2020** *Oceans* (MDPI). Special issue- “Fish Larval Biology and Ecology”. Guest-edited by Pedro Morais and Ana Faria.
- 2009-2011** *Biological Invasions* (Springer) (impact factor: 3.474, 2010)  
Special issue- “Biological invasions and ecosystem functioning: time to merge”. Guest edited by Ronaldo Sousa, Pedro Morais, Ester Dias, and Carlos Antunes. ISSN: 1387-3547 (Print) 1573-1464 (Online). <https://link.springer.com/journal/10530/13/5>.  
I was responsible for managing the entire editorial process of this special issue. We received 47 manuscripts (15 were published), of which I handled the revision process of 22 papers and co-supervised the revision of 9 papers.

## 10.4. EDITOR OF CONFERENCE PROCEEDINGS

- 2009** Antunes C, Dias E, Morais P, Sousa R (2009) Conference Proceeding – World Conference on Biological Invasions and Ecosystem Functioning (BIOLIEF). Braga. 142p. doi: 10.13140/2.1.4732.4160. Legal deposit: 300578/09.

**2008** Morais P, Faria A (Eds.) (2008) Abstract book – III Encontro Nacional de Pós-Graduação em Ciências Biológicas. Faro. 69p. doi: 10.13140/2.1.3307.0086.

## 10.5. REVIEWER

**2023** Conservation, Diversity, Journal of the Marine Biological Association of the United Kingdom

**2022** Estuaries and Coasts, Fishes, Frontiers in Marine Science, Heliyon, PLOS ONE

**2021** Environmental Biology of Fishes, Estuaries and Coasts, Fishes, Journal of Sea Research, Peer J

**2020** Estuaries and Coasts; Estuarine, Coastal, and Shelf Science (2); Frontiers in Marine Science (4); Marine Ecology Progress Series; Science of the Total Environment

**2019** Diversity; Marine Ecology Progress Series; Regional Studies in Marine Science

**2018** Journal of Sea Research; Peer J; San Francisco Estuary and Watershed Science; Science of the Total Environment; Scientific Reports

**2017** Ecosphere; Frontiers in Marine Science

**2016** Bioinvasions Records; Estuarine, Coastal and Shelf Science; Fisheries Research

**2015** Neobiota

**2014** Biological Journal of the Linnean Society; Estuarine, Coastal and Shelf Science; Journal of Molluscan Studies

**2013** Ecohydrology and Hydrobiology; Journal of Experimental Marine Biology and Ecology; Journal of Marine Systems

**2012** Ecology of Freshwater Fish; Environmental Monitoring and Assessment; Estuarine, Coastal and Shelf Science; Journal of Fish Biology

**2011** Annales de Limnologie - International Journal of Limnology; Estuarine, Coastal and Shelf Science; Pakistan Journal of Zoology

**2010** Annales de Limnologie - International Journal of Limnology; Environmental Engineering and Management Journal; Estuarine, Coastal and Shelf Science; Journal of the Marine Biological Association of the United Kingdom; Pakistan Journal of Zoology; Revista de Biología Marina y Oceanografía

**2009** Annales de Limnologie - International Journal of Limnology; Environmental Biology of Fishes; Estuarine, Coastal and Shelf Science; Marine & Freshwater Research (received a

personal acknowledgment from the editor recognizing the high-quality review that I made)

**2007** Estuarine, Coastal and Shelf Science

**2004** Estuarine, Coastal and Shelf Science

## 11. AFFILIATION TO SCIENTIFIC SOCIETIES

**Since 2021** California Estuarine Research Society. Board Member: Member-at-large, Communications Lead.

**Since 2011** Coastal and Estuarine Research Federation, USA ([www.cerf.science](http://www.cerf.science))

## 12. DIVERSITY AND INCLUSION

**2023-2025** Selected for the first “Inclusive Leadership Program” organized by the Coastal and Estuarine Research Federation (10 participants selected among 106 applicants).

**2018-2019** Member of the “Ad-Hoc Safety and Welcoming Committee” of the Coastal and Estuarine Research Federation (CERF) conference held in November 2019 in Mobile (Alabama).

## 13. SERVICE

**2022-** Communications Lead (Member-at-Large). California Estuarine Research Society.

**2013-2014** Scientific Secretary of the Centre of Marine and Environmental Research, University of Algarve (Portugal). July 2013-September 2014.

## 14. ORGANIZATION OF CONFERENCES AND ADVANCED COURSES

**12** Scientific Program Chair. 28th CERF Conference. Richmond, VA (USA). November 2025.

**11** Poster Committee. 27th CERF conference. Portland, OR (USA). November 2023.

**10** Organizing Committee of the California Estuarine Research Society meeting – CAERS 2023 – in Costa Mesa, CA (USA).

**9** Poster Committee. 26th CERF conference. Virtual Conference. November 2021.

**8** Poster Committee. 25th CERF conference. Mobile, AL (USA). November, 2019.

**7** Lectured the workshop “Scientific Writing” to the ECOREACH research group. CCMAR – University of Algarve. Faro (Portugal), November-December 2016.



- 6 Organized the “CIMA Day” as the Scientific Secretary of CIMA – University of Algarve. Faro (Portugal), June 6, 2014.
- 5 Organizer of the statistics course “Introduction to R”. CIIMAR – University of Porto. Porto (Portugal), February 25 - March 1, 2013.
- 4 Main organizer of the “World Conference on Biological Invasions and Ecosystem Functioning”. CIIMAR – University of Porto. Porto (Portugal), October 27-30, 2009. This conference gathered 300 scientists coming from 45 countries and all continents.
- 3 Main organizer of the “III National Meeting of Biological Sciences Graduate Students”. CCMAR – University of Algarve. Faro (Portugal), September 3-5, 2008.
- 2 Organizer of the advanced course on “Statistica 8 (Statsoft Inc.)”. CIIMAR – University of Porto. Porto (Portugal), July 14-18, 2008.
- 1 Co-organizer of the workshop “New technologies in the study of otoliths and its application in marine biology and fisheries”. CIIMAR – University of Porto. Porto (Portugal), January 22, 2007.

## 15. CHAIR OF SESSIONS IN INTERNATIONAL CONFERENCES

- 11 *Estuarine and coastal plankton communities: sentinels of evolving ecosystems*. 27<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation. Portland (OR), USA. November 13, 2023.
- 10 *Non-indigenous and invasive species in estuaries and coasts*. 27<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation. Portland (OR), USA. November 14, 2023.
- 9 *Fish and shellfish: linking science, management, and society*. 27<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation. Portland (OR), USA. November 14-16, 2023.
- 8 *Estuarine and coastal plankton communities: sentinels of evolving ecosystems*. 26<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation. Online Conference. November 2021. Dr. Peggy Lehman was the co-convener of this session.
- 7 *Non-indigenous and invasive species in estuaries and coasts*. 26<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation. Online Conference. November 2021.
- 6 *Fish and shellfish: linking science, management, and society*. 26<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation. Online Conference. November 2021. Dr. Ester Dias was the co-convener of this session.

- 5 *Estuarine and coastal plankton communities: sentinels of evolving ecosystems*. 25<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation. Mobile, AL (USA). November 6, 2019.
- 4 *Non-indigenous and invasive species in estuaries and coasts*. 25<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation. Mobile, AL (USA). November 5, 2019.
- 3 *Fish and fisheries: linking science, management, and society*. 25<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation. Mobile, AL (USA). November 4-5, 2019. Dr. Ester Dias was the co-convener of this session.
- 2 *Diadromy across estuaries: research, management and citizen science*. 24<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation. Providence, RI (USA). November 8, 2017. The co-conveners of this session were Dr. Karin E. Limburg, Dr. Benjamin D. Walther, and Dr. Thomas Bigford.
- 1 *The relevance of biological invasions on ecosystem functioning*. 22<sup>nd</sup> Biennial Conference of the Coastal & Estuarine Research Federation. San Diego, CA (USA), November 6, 2013.

## 16. PROFESSIONAL DEVELOPMENT

### 16.1. CONFERENCES

- 2023** 27<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation (Portland, OR, USA, Nov 12-16).
- 2021** 26<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation (Virtual Conference, Nov 1-4, Nov 8-11).
- 2020** VII Iberian Conference of Ichthyology. (Virtual Conference, June 15-19).
- 2019** 25<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation (Providence, RI, USA, November 4-7).
- 2018** 10<sup>th</sup> Biennial Bay-Delta Science Conference (Sacramento, CA, USA, September 10-12)
- 2018** 6<sup>th</sup> International Otolith Symposium (Keelung, Taiwan, April 15-20)
- 2017** 24<sup>th</sup> Biennial Conference of the Coastal & Estuarine Research Federation (Providence, RI, USA, November 4-9).
- 2014** NEOBIOTA 2014. 8<sup>th</sup> International Conference on Biological Invasions. Biological Invasions: From understanding to action (Antalya, Turkey, November 3-7).
- 2014** 5<sup>th</sup> International Otolith Symposium (Paguera, Spain, October 20-24).

- 2013** 22<sup>nd</sup> Biennial Conference of the Coastal & Estuarine Research Federation (San Diego, CA, USA, November 3-7).
- 2011** 21<sup>st</sup> Biennial Conference of the Coastal & Estuarine Research Federation (Daytona Beach, FL, USA, November 6-10).
- 2010** V Simpósio Ibérico sobre a Bacia Hidrográfica do Rio Minho (Vila Nova de Cerveira, Portugal, November 13-14).
- 2010** 12<sup>º</sup> Encontro Nacional de Ecologia. Sociedade Portuguesa de Ecologia (SPECO) (Porto, Portugal, October 18-20).
- 2009** World Conference on Biological Invasions and Ecosystem Functioning (Porto, Portugal, October 27-30).
- 2008** IV Simpósio Ibérico sobre a Bacia Hidrográfica do Rio Minho (Vila Nova de Cerveira, Portugal, November 14-15).
- 2008** NEOBIOTA 2008 – towards a synthesis (Prague, Czech Republic, September 23-26).
- 2008** III Encontro Nacional de Estudantes de Pós-Graduação em Ciências Biológicas (Faro, Portugal, September 3-5).
- 2007** II Encontro Nacional de Estudantes de Pós-Graduação em Ciências Biológicas (Porto, Portugal, June 4-6).
- 2005** 39th ECSA Symposium (Edinburgh, Scotland, September 13-17).
- 2005** III Plankton Symposium (Figueira da Foz, Portugal, March 16-19).
- 2004** 38th ECSA Symposium "Changes in land uses: consequences on estuaries and coastal zones" (Rouen, France, September 13-17).
- 2004** Guadiana estuary Workshop (Faro, Portugal, September 1-2).
- 2003** II Plankton Symposium (Vigo, Spain, October 16-19).
- 2003** 4<sup>º</sup> Simpósio sobre a Margem Continental Ibérica Atlântica (Vigo, Spain, July 7-10).
- 2001** I Plankton Symposium (Espinho, Portugal, September 20-22).
- 2000** 3<sup>º</sup> Encontro das Pescas (Faro, Portugal, November 18).
- 2000** 2<sup>º</sup> Congresso Ibérico Planeamento e Gestão da Água (Porto, Portugal, November 9-12).
- 2000** 3<sup>º</sup> Simpósio sobre a Margem Continental Ibérica Atlântica (Faro, Portugal, September 25-27).
- 1999** II Congresso de ornitologia da Sociedade Portuguesa para o Estudo das Aves (SPEA) (Faro, Portugal, October 30 - November 1).

- 1998** 3º Encontro Nacional de Ecologia. Sociedade Portuguesa de Ecologia (SPECO) (Faro, Portugal, December 3-5).
- 1998** Conferência "*Agua purificada para aplicaciones de laboratorio. Aplicación práctica de las nuevas tecnologías en purificación de agua*". Seminários Técnicos. Millipore. (Faro, Portugal, October 27).
- 1998** ICES Annual Science Conference (Estoril, Portugal, September 16-19).
- 1998** WWF Conference- "Creating a sea change: resolving the global fisheries crisis" (Lisboa, Portugal, September 14-15).
- 1998** 1º Simpósio Interdisciplinar sobre Processos Estuarinos (SIPRES) (Faro, Portugal, June 15-17).
- 1998** Conferência "Oceanos, um desafio para o futuro" (Faro, Portugal, June 1).
- 1996** 10<sup>th</sup> Annual Conference of the European Cetacean Society (Lisboa, Portugal, March 11-13).
- 1995** I Congresso Nacional de Actividades Subaquáticas (Faro, Portugal, May 27-28).

## 16.2. ADVANCED COURSES

- 2018** Introduction to QGIS. UC Berkeley, Berkeley, CA, USA. January 24.
- 2018** Introduction to ArcGIS online. UC Berkeley, Berkeley, CA, USA. January 23.
- 2017** Data wrangling and manipulation in R. UC Berkeley. Berkeley, CA, USA. November 1.
- 2017** R Graphics with ggplot2. UC Berkeley. Berkeley, CA, USA. October 30.
- 2017** R Bootcamp 2017. UC Berkeley. Berkeley, CA, USA. August 19-20.
- 2016** Identification of non-indigenous mollusks species of the Portuguese coast.  
Dr. Mónica Albuquerque, BioMar PT. University of Algarve, Faro, Portugal. December 3-5.
- 2016** Identification of non-indigenous tunicate species of the Portuguese coast  
Prof. Alfonso Ramos Espla, Univ. of Alicante, Spain. University of Algarve, Faro, Portugal. November 21-24.
- 2013** Introduction to R.  
Centro de Investigação Marinha e Ambiental. Porto, Portugal. February 25 – March 1.
- 2012** International Summer Course in Ecohydrology: from rivers to coasts.  
International Center for Coastal Ecohydrology, UNESCO. Faro, Évora and Castro Marim, Portugal. July 22 – August 4.

- 2010-2011** Introduction to GIS software. Geography Department of University of Porto. Porto, Portugal. November 2010 – January 2011.
- 2008** Introduction to the study of birds.  
Dr. Ester Dias. Centro de Investigação Marinha e Ambiental. Vila Nova de Cerveira, Portugal. January 26-27.
- 2003** Analyzing biological and environmental field data.  
Dr. Alain F. Zuur. University of Algarve, Faro, Portugal. July 14-18.
- 2003** Experimental Design.  
Professor Anthony J. Underwood and Dr. G. Chapman (Univ. of Sidney). University of Algarve, Faro, Portugal. June 16-26.
- 2002** Ecohydrology and Coastal Management: from Catchment to Coastal Areas.  
Centre of Marine Sciences. Faro, Portugal. September 23-30.
- 2001** Ecohydrology across the scales- From molecular to landscape processes.  
European Regional Centre for Ecohydrology, UNESCO, Poland. August 16-27.
- 1998** Protection and radiological safety course.  
Department of Protection and Radiological Safety, Portuguese Environmental Agency. Faro, Portugal. April, 15-16.

### 16.3. SCIENTIFIC TRAINING IN OTHER LABS

- 2012** Geometric morphometry. Dr. Marta Rufino, Lab. Nacional de Energia e Geologia. Lisbon, Portugal, May 21-25.
- 2008** Bioturbation analysis. Dr. Martin Solan, University of Aberdeen. Aberdeen, Scotland, 29 September 29 – October 16.
- 2002** Histological techniques and analysis of fish gonads. Dr. Lorenzo Motos, AZTI Tecnalia. San Sebastian, Spain, February 18-22.
- 2000** Sampling techniques and identification of estuarine fishes – Dr. Henrique Cabral, Instituto de Oceanografia, Faculdade de Ciências, Universidade de Lisboa. Lisbon, Portugal, October 28 – November 3.

## 17. PUBLIC OUTREACH

### 17.1. ORGANIZATION OF OUTREACH ACTIVITIES AND PUBLICATIONS

- 2021** Invited by the European Commission to talk about science and scientific publications with 6<sup>th</sup> grade students from the European School in Varese (Italy). February 10, 2021.
- 2013** Organized the activity “How old are the fishes that we eat?” for 5<sup>th</sup> and 6<sup>th</sup> grade students. Centro de Ciência Viva de Tavira (Tavira, Portugal). November 20, 2013.
- 2008** Published the article “Aliens in the Guadiana” in Zoomarine’s blog. Zoomarine is a public aquarium visited by hundreds of thousands of people each year in southern Portugal. December, 2008.
- 2008** Co-organized a birdwatching activity for people of all ages in the Minho river. Aquamuseu do Rio Minho (Vila Nova de Cerveira, Portugal). August 2008.
- 2007** Organized an activity called “How old are the fishes that we eat?” for high school students who visited the research center CIIMAR (Porto, Portugal). July 16-20, 2007.
- 2007** Published four articles in Jornal do Bairro, a local newspaper in Lisbon (Portugal), about environment and science.

### 17.2. SUMMARY OF RESEARCH HIGHLIGHTED IN MULTIPLE NEWS OUTLETS

- 2019-2021** Thirty-one news published online and traditional media, including three news pieces broadcasted on Portuguese national television on the work done about citizen science to increase the reports of tropical and invasive species in the Algarve.
- 2018** Interview with the main daily Portuguese newspaper about the impact of the Alqueva dam – the biggest water reservoir in Europe – on the Guadiana estuary. This news piece summarizes the interviews done with several other researchers. Publico (April 25, 2018).
- 2017** Thirty-nine online articles and three news pieces were broadcast on Portuguese national television on the work done with non-indigenous species in the Guadiana estuary and their culinary use to mitigate the impact of these species or to increase the economic revenue of local fishing communities.
- 2016** Ten news articles about identifying a new non-indigenous fish species in the Guadiana estuary.

- 2016** Four news articles about the publication of “An introduction to fish migration” and the main factors periling the conservation status of migratory fish.
- 2015** National Geographic (Portugal) highlighted our paper on the putative impact of great cormorants in an Iberian estuary on March 2015.
- 2013** The newsletter Pardela (Portuguese Society for the Study of Birds) (September-December 2013) highlighted our paper "Natural born indicators: Great cormorant *Phalacrocorax carbo* as monitors of river discharge influence on estuarine ichthyofauna" - Dias et al. (2012) Journal of Sea Research 73: 101-108.
- 2011** Four news articles on the publication of a special volume by “Biological Invasions” in May 2011.
- 2009** Two news articles on the organization of the BIOLIEF conference "World Conference on Biological Invasions and Ecosystem Functioning" - October 2009 (Porto, Portugal).

## 18. LANGUAGES

