



# MARTINA ILARRI

RESEARCHER

During my career, I have collaborated with more than 50 researchers, published 42 scientific papers in peer-reviewed journals, 59 conference abstracts (32 oral, 27 posters) and supervised 12 students (PhD, MSc, BSc).

## Personal information

### Name

Martina Ilarri

### Birthdate

December 29, 1981

### Gender

Female

### Residence

Portugal

### Nationality

Brazilian/Spanish/Portuguese

## Scientific profile



### CIENCIA ID

E212-E1D1-4509



### Scopus author ID

16426031100



### ORCID

0000-0001-6780-8221



### ResearchGate

<https://www.researchgate.net/profile/Martina-Ilarri>

## Academic website



<https://martinailarri.netlify.app/>

## Scientific metrics



### Peer-reviewed papers

42 (Scopus)

44 (ResearchGate)



### H-index

18 (Scopus)

20 (ResearchGate)



### Total citations

968 (Scopus)

1206 (ResearchGate)

## Education

### Pos-graduation on Data Management/Data Steward Certificate Course

University of Vienna, Austria | 2024 - 2025

- Developing skills in research data management, open science, open access and open data

### PHD/Doctoral School in Marine and Environmental Sciences

University of Porto, Portugal | 2008 - 2012

**Thesis:** *Functional importance of the Asian clam Corbicula fluminea in invaded ecosystems*

Specific tasks:

- Quantification of the ecological impact of aquatic IAS at different ecological levels;
- Taxonomic identification of aquatic organisms;
- Data analysis skills to assess the impact of IAS on the associated fauna;
- Quantitative skills in ecology.

### Master/Biological Sciences - Zoology

Universidade Federal da Paraiba, Brazil | 2006 - 2008

**Thesis:** *The study of the fish assemblage of full protection areas in comparison to the fish assemblage of sustainable use areas, at the archipelago of Fernando de Noronha - PE, Southwestern Atlantic.*

Specific tasks:

- Identification of the fish community by visual census;
- Theoretical and quantitative knowledge of ecology;
- Knowledge on statistical analysis.

### Bachelor/Biological Sciences - Marine Biology

Universidade Federal Fluminense, Brazil | 2000 - 2005

**Thesis:** *The effect of nutrients enrichment on the development of marine biofouling communities with the absence of predators.*

Specific tasks:

- Field and laboratory experiments;
- Taxonomic identification of aquatic organisms.

## Research fields

- ✓ **Biological invasions**
- ✓ **Aquatic ecology**
- ✓ **Climate change**
- ✓ **Conservation**

## Skills

### Data knowledge

- Data analysis (frequentist statistic) ●●●●●
- Data processing (structured data) ●●●●●
- Data management ●●●●●

### Programing languages

- R ●●●●●
- Git ●●●●●
- Python ●●●●●

### Languages

- Portuguese ●●●●●
- English ●●●●●
- Spanish ●●●●●
- German ●●●●●

## Experience

### Junior researcher

CIIMAR - Interdisciplinary Centre of Marine and Environmental Research of the University of Porto, Portugal | 2018 - 2024

Specific tasks:

- Quantifying the ecological impact of aquatic invasive IAS at different ecological levels;
- Assessment of spatial and temporal patterns of IAS introduction;
- Assessment of the effects of different pressures (e.g. climate change) on IAS populations;
- Data analysis, including statistical modelling;
- Data processing skills, with emphasis on data from different sources (e.g. temperature, pluviosity);
- Data management skills;
- Field and laboratory experiments;
- Taxonomic identification of aquatic organisms;
- Supervision of students.

### Post-doctoral fellow

Foundation for Science and Technology - FCT, Portugal | 2013 - 2018

Specific tasks:

- Quantifying the ecological impact of aquatic IAS at different ecological levels;
- Assessment of spatial and temporal patterns of IAS introduction;
- Data analysis;
- Field and laboratory experiments;
- Taxonomic identification of aquatic organisms;
- Supervision of students.

### Assistant researcher

CIIMAR - Interdisciplinary Centre of Marine and Environmental Research of the University of Porto, Portugal | 2025 - Present






Evaluation of the ecological impacts of multiple invasive species in invaded ecosystems.

## Maternity leave





November 2019 | March of 2020

June 2024 | November of 2024

## Publications (last 5 years)

-  2020 to 2025: 20
-  Articles: 12
-  Dataset in repository: 2
-  Data paper: 3
-  Preprint: 3

## Publications by positions (last 5 years)

-  First author: 4
-  Second author: 8
-  Co-author: 6
-  Senior author: 2

## Publications

### Article

#### 1) A global meta-analysis of ecological functions and regulating ecosystem services of freshwater bivalves

Zieritz A et al. | 2025

Limnology and Oceanography. <https://doi.org/10.1002/lno.70190>

### Article

#### 2) Biodiversity assessment in a Floating Wetland Island established in a Stormwater Pond

Calheiros CSC, Ilarri MI, Godinho M, Castro PML, Pereira SIA | 2025

Ecological engineering. <https://doi.org/10.1016/j.ecoleng.2025.107598>

### Data paper

#### 3) Shallow reef fish assemblage from Fernando de Noronha Archipelago, Southwest Atlantic

Ilarri MI, Valentim L, Gitirana HM, Rosa RS, Souza AT | 2024

Biodiversity Data Journal. 12: e133462. doi:

<https://doi.org/10.3897/BDJ.12.e133462>

### Data paper

#### 4) Long-term monitoring of the fish community in the Minho Estuary (NW Iberian Peninsula)

Souza AT, Ilarri MI, Dias E, Araújo MJ, Roleira A, Braga AC, Carvalho AR, Mota M, Correia MH, Lages A, Moura A, Antunes C | 2024

Biodiversity Data Journal. doi: <https://doi.org/10.3897/BDJ.12.e112217>

### Preprint

#### 5) Shallow-reef fish assemblage from Fernando de Noronha Archipelago, SW Atlantic

Ilarri MI, Valentim L, Gitirana H, Rosa RS, Souza AT | 2024

ARPHA Preprints. doi: <https://doi.org/10.3897/arphapreprints.e133586>

### Dataset

#### 6) EuropaBON EBV workflow templates

Lumbierres M et al. | 2024

Zenodo. doi: <https://doi.org/10.5281/zenodo.10971094>

### Article

#### 7) Disruptions caused by invasive species and climate change on the functional diversity of a fish community

Souza AT, Dias E, Antunes C, Ilarri M | 2023

NeoBiota. doi: <https://doi.org/10.3897/neobiota.88.108283>

### Dataset

#### 8) Long-term monitoring of the fish community in the Minho Estuary (NW Iberian Peninsula)

Souza AT, Ilarri MI, Dias E, Araújo MJ, Roleira A, Braga AC, Carvalho AR, Mota M, Correia MH, Lages A, Moura A, Antunes C | 2023

Zenodo. doi: <https://doi.org/10.5281/zenodo.8046541>

### Preprint

#### 9) Long-term monitoring of the fish community in the Minho Estuary (NW Iberian Peninsula)

Souza AT, Ilarri MI, Dias E, Araújo MJ, Roleira A, Braga AC, Carvalho AR, Mota M, Correia MH, Lages A, Moura A, Antunes C | 2023

ARPHA Preprints. doi: <https://doi.org/10.3897/arphapreprints.e112222>

### Preprint

#### **10) Disruptions caused by invasive species and climate change on the functional diversity of a fish community**

Souza AT, Dias E, Antunes C, Ilarri M | 2023

ARPHA Preprints. doi: <https://doi.org/10.3897/arphapreprints.e108383>

### Article

#### **11) Biodiversity associated to floating wetland islands**

Calheiros CSC, Ilarri MI, Pereira SIA | 2023

Environmental Science and Engineering. [https://doi.org/10.1007/978-3-031-31289-2\\_13](https://doi.org/10.1007/978-3-031-31289-2_13)

### Article

#### **12) What we know and do not know about the invasive Asian clam *Corbicula fluminea***

Modesto V, Ilarri M, Labecka AM, Ferreira-Rodríguez N, Coughlan NE, Liu Xiongjun, Sousa R | 2023

Hydrobiologia. doi: <https://doi.org/10.1007/s10750-023-05280-w>

### Article

#### **13) Interspecific differences in the physiological condition of native freshwater mussels in response to the invasive Asian clam *Corbicula fluminea***

Modesto V, Ilarri M, Castro P, Carvalho F, Cavalheri T, Lopes-Lima M, Teixeira A, Ozório ROA, Antunes C, Sousa R | 2023

Hydrobiologia. doi: <https://doi.org/10.1007/s10750-023-05209-3>

### Article

#### **14) Boom and bust: Simulating the effects of climate change on the population dynamics of a global invader near the edge of its native range**

Souza AT, Ilarri M, Campos J, Ribas FO, Marques JC, Martins I | 2022

Science of The Total Environment. doi:

<https://doi.org/10.1016/j.scitotenv.2022.158294>

### Article

#### **15) Influence of climate change and extreme weather events on an estuarine fish community**

Ilarri M, Souza AT, Dias E, Antunes C | 2022a

Science of the Total Environment. doi:

<https://doi.org/10.1016/j.scitotenv.2022.154190>

### Data paper

#### **16) Life-history data of a key amphipod species from three NE Atlantic estuaries under different levels of anthropogenic pressure**

Martins I, Guerra A, Leite N, Constantino, E, Ilarri MI, Souza AT, Santos MM, Ford AT, Campos J | 2022

Data in Brief. <https://doi.org/10.1016/j.dib.2021.107729>

### Article

#### **17) Spatio-temporal and intra-specific variations in the physiological and biochemical condition of the invasive bivalve *Corbicula fluminea***

Ilarri MI, Monteiro RG, Ozório, R, Sousa R | 2022b

Hydrobiologia. doi: <https://doi.org/10.1007/s10750-021-04733-4>

**Article**

**18) Comparing production and life-history traits of a key amphipod species within and between estuaries under different levels of anthropogenic pressure: amphipod dynamics under varying anthropogenic pressure**

Martins I, Guerra A, Leite N, Constantino E, Ilarri MI, Souza AT, Santos MM, Ford AT, Campos J | 2022

Marine Environmental Research. doi:

<https://doi.org/10.1016/j.marenvres.2021.105538>

**Article**

**19) Trophic niche overlap between native freshwater mussels (Order: Unionida) and the invasive *Corbicula fluminea***

Modesto V, Dias E, Ilarri M, Lopes-Lima M, Teixeira A, Varandas S, Castro P, Antunes C, Sousa, R | 2021

Aquatic Conservation: Marine and Freshwater Ecosystems. doi:

<https://doi.org/10.1002/aqc.3618> 10.1002/aqc.3618

**Article**

**20) Proceedings of X Iberian Symposium on the hydrographic Minho River Basin**

Antunes C, Moreira C, Costa D, de A, Dias E, Cobo F, Correia R, Ilarri M, Sousa, R., Vieira Lanero R, Azeiteiro U. & Freitas V | 2021

Environmental Smoke, (Special Issue), vi + 62. doi:

<https://doi.org/10.32435/envsmoke/xibesymp.book>

**Article**

**21) Decay and persistence of empty bivalve shells in a temperate riverine system**

Ilarri MI, Souza AT, Amorim L, Sousa R | 2019

Science of the Total Environment. doi:

<https://doi.org/10.1016/j.scitotenv.2019.05.208>

**Article**

**22) Potential impacts of the invasive species *Corbicula fluminea* on the survival of glochidia**

Modesto V, Castro P, Lopes-Lima M, Antunes C, Ilarri M, Sousa R | 2019

Science of the Total Environment.

doi:<https://doi.org/10.1016/j.scitotenv.2019.04.043>

**Article**

**23) Antagonistic effects of multiple stressors on macroinvertebrate biomass from a temperate estuary (Minho estuary, NW Iberian Peninsula)**

Martins I, Dias E, Ilarri MI, Campuzano FJ, Pinto L, Santos MM, Antunes C | 2019

Ecological Indicators. doi: <https://doi.org/10.1016/j.ecolind.2019.01.065>

**Article**

**24) Influence of temperature on intraspecific, unbalanced dyadic contests between crabs**

Souza AT, Ribas, FO, Moura JF, Moreira C, Campos J, Ilarri MI | 2019

PeerJ. doi: <https://doi.org/10.7717/peerj.7845>

**Article**

**25) Assessing the effects of temperature and salinity oscillations on a key mesopredator fish from European coastal systems**

Souza AT, Ilarri MI, Timóteo S, Marques JC, Martins I | 2018

Science of the Total Environment. doi:

<https://doi.org/10.1016/j.scitotenv.2018.05.348>

**Article**

**26) Physical legacy of freshwater bivalves: Effects of habitat complexity on the taxonomical and functional diversity of invertebrates**

Ilarri MI, Amorim L, Souza AT, Sousa R | 2018

Science of the Total Environment. doi:

<https://doi.org/10.1016/j.scitotenv.2018.04.070>

**Article**

**27) Palatability of the Asian clam *Corbicula fluminea* (Müller 1774) in an invaded system**

Castro PS, Ilarri MI (contributed as 1st author), Modesto V, Antunes C, Sousa R | 2018

Hydrobiologia. doi: <https://doi.org/10.1007/s10750-017-3136-0>

**Article**

**28) Fish and mussels: Importance of fish for freshwater mussel conservation**

Modesto V, Ilarri M, Souza AT, Lopes-Lima M, Douda K, Clavero, M, Sousa R | 2018

Fish and Fisheries. doi: <https://doi.org/10.1111/faf.12252>

**Article**

**29) Community structure of reef fishes in shallow waters of the Fernando de Noronha archipelago: Effects of different levels of environmental protection**

Ilarri MI, Souza AT, Rosa RS | 2017

Marine and Freshwater Research. doi: <http://dx.doi.org/10.1071/MF16071>

**Article**

**30) Effects of the invasive clam *Corbicula fluminea* (Müller, 1774) on an estuarine microbial community**

Novais A, Souza AT, Ilarri MI, Pascoal C, Sousa R | 2016

Science of the Total Environment. doi:

<http://dx.doi.org/10.1016/j.scitotenv.2016.05.167>

**Article**

**31) From water to land: How an invasive clam may function as a resource pulse to terrestrial invertebrates**

Novais A, Souza AT, Ilarri MI, Pascoal C, Sousa R | 2015

Science of the Total Environment. doi:

<http://dx.doi.org/10.1016/j.scitotenv.2015.08.106>

**Article**

**32) Facilitation in the low intertidal: Effects of an invasive species on the structure of an estuarine macrozoobenthic assemblage**

Novais A, Souza AT, Ilarri MI, Pascoal C, Sousa R | 2015

Marine Ecology Progress Series. doi: <http://dx.doi.org/10.3354/meps11168>

**Article**

**33) Contrasting decay rates of freshwater bivalves' shells: Aquatic versus terrestrial habitats**

Ilarri MI, Souza AT, Sousa R | 2015a

Limnologica. doi: <http://dx.doi.org/10.1016/j.limno.2014.10.002>

**Article**

**34) Differences in the macrozoobenthic fauna colonising empty bivalve shells before and after invasion by *Corbicula fluminea***

Ilarri MI, Souza AT, Modesto V, Guilhermino L, Sousa R | 2015b

Marine and Freshwater Research. doi: <http://dx.doi.org/10.1071/MF14004>

**Article**

**35) Behavioral changes of a Brazilian endemic damselfish *Stegastes rocasensis* when guarding egg clutches**

Souza AT, Ilarri MI | 2014

Environmental Biology of Fishes. doi: <http://dx.doi.org/10.1007/s10641-013-0215-6>

**Article**

**36) Influence of the invasive Asian clam *Corbicula fluminea* (Bivalvia: Corbiculidae) on estuarine epibenthic assemblages**

Ilarri MI, Souza AT, Antunes C, Guilhermino L, Sousa R | 2014

Estuarine, Coastal and Shelf Science. doi:

<http://dx.doi.org/10.1016/j.ecss.2014.03.017>

**Article**

**37) Associated macrozoobenthos with the invasive Asian clam *Corbicula fluminea***

Ilarri MI, Freitas F, Costa-Dias S, Antunes C, Guilhermino L, Sousa R | 2012

Journal of Sea Research. doi: <http://dx.doi.org/10.1016/j.seares.2011.10.002>

**Book chapter**

**38) *Corbicula fluminea* Müller (Asian clam)**

Ilarri MI, Sousa R | 2012

A Handbook of Global Freshwater Invasive Species. ISBN 978-113646125-5, 978-184971228-6

**Article**

**39) Differences in the neighborhood: Structural variations in the carapace of shore crabs *Carcinus maenas* (Decapoda: Portunidae)**

Souza AT, Ilarri MI, Campos J, Marques JC, Martins I | 2011

Estuarine, Coastal and Shelf Science. doi:

<http://dx.doi.org/10.1016/j.ecss.2011.06.021>

**Article**

**40) Habitat use, feeding and territorial behavior of a Brazilian endemic damselfish *Stegastes rocasensis* (Actinopterygii: Pomacentridae)**

Souza AT, Ilarri MI, Rosa IL | 2011

Environmental Biology of Fishes. doi: <http://dx.doi.org/10.1007/s10641-010-9765-z>

**Article**

**41) Massive mortality of the Asian clam *Corbicula fluminea* in a highly invaded area**

Ilarri MI, Antunes C, Guilhermino L, Sousa R | 2011

Biological Invasions. doi: <http://dx.doi.org/10.1007/s10530-010-9833-5>

**Article**

**42) Unusual colour patterns of territorial damselfish (Pomacentridae: *Stegastes*) in the south-western Atlantic**

Souza AT, Ilarri MI, Medeiros PR, Sampaio CLS, Floeter SR | 2011

Annales de Limnologie. doi: <http://dx.doi.org/10.1051/limn/2011041>

**Article**

**43) Rapid decline of the greater European peaclam at the periphery of its distribution**

Souza R, Ilarri MI, Souza AT, Antunes C, Guilhermino L | 2011

Annales de Limnologie. doi: <http://dx.doi.org/10.1051/limn/2011041>

**Article**

**44) Habitat use and behavioural ecology of the juveniles of two sympatric damselfishes (Actinopterygii: Pomacentridae) in the south-western Atlantic Ocean**

Medeiros PR, Souza AT, Ilarri MI | 2010

Journal of Fish Biology. doi: <http://dx.doi.org/10.1111/j.1095-8649.2010.02795.x>

**Article**

**45) Non-random reef use by fishes at two dominant zones in a tropical, algal-dominated coastal reef**

Medeiros PR, Gempel RG, Souza AT, Ilarri MI, Rosa RS | 2010

Environmental Biology of Fishes. doi: <http://dx.doi.org/10.1007/s10641-010-9593-1>

**Article**

**44) Effects of tourist visitation and supplementary feeding on fish assemblage composition on a tropical reef in the Southwestern Atlantic**

Ilarri MI, Souza AT, Medeiros PR, Gempel RG, Rosa I | 2008

Neotropical Ichthyology. doi: <http://dx.doi.org/10.1590/s1679-62252008000400014>

**Article**

**46) Fishes (Elasmobranchii and Actinopterygii) of Picãozinho reef, Northeastern Brazil, with notes on their conservation status**

Souza, AT, Ilarri MI, Medeiros PR, Gempel RG, Rosa RS, Sampaio CLS | 2007

Zootaxa. doi: <http://dx.doi.org/10.11646/zootaxa.1608.1.2>

**Article**

**47) A 'hitch-hiker octopus' on a southern stingray at Fernando de Noronha Archipelago, SW Atlantic**


Souza AT, Ilarri MI, Valentim LPF | 2007


Coral Reefs. doi: <http://dx.doi.org/10.1007/s00338-007-0199-9>

## Supervisions

 **Phd students: 1**

 **Master students: 6**

 **Mobility of a postdoctoral international student: 1**

 **Master internship: 1**

 **Bachelor students: 3**

## Supervisions

### PhD Students

1 - *Ana Vanessa Modesto*, **2020, Co-supervisor**, University of Minho (Portugal); **Concluded**

### Master Students

1 - *João Pedro Correia de Sousa Magalhães*, **2023; Co-supervisor**, University of Porto (Portugal); **Concluded**

2 - *João Victor Oliveira Freitas*, **2019, Supervisor**, University of Minho (Portugal), **Concluded**

3 - *Pedro Filipe Oliveira da Silva*, **2017, Supervisor**, University of Minho (Portugal), **Concluded**

4 - *Rosana Gomes Monteiro*, **2017, Co-supervisor**, University of Minho (Portugal), **Concluded**

5 - *Luís Carlos da Silva Amorim*, **2016, Supervisor**, University of Minho (Portugal), **Concluded**

6 - *Paulo José Soares Castro*, **2015, Supervisor**, University of Minho (Portugal), **Concluded**

### Mobility of a postdoctoral international student (Other supervisions)

1 - *Elizandro Oliveira Silveira*, **2023, Co-supervisor**, University of Porto (Portugal) and Universidade Fderal do Rio Grande do Sul (Brazil), **Concluded**

### Master internship (Other supervisions)

1 - *Neeha Nawaz*, **2023, Co-supervisor**, University of Porto (Portugal), **Concluded**

### Bachelor Students

1 - *Maria João Reis da Silva*, **2022, Supervisor**; University of Porto (Portugal), **Concluded**

2 - *Eunice Isabel da Conceição Ferreira*, **2017, Co-supervisor**, University of Porto (Portugal), **Concluded**

3 - *Paulo Rainha*, **2015, Supervisor**, University of Minho (Portugal), **Concluded**

## References

### Allan Souza

Researcher  
Institute for Atmospheric and Earth  
System Research INAR, Faculty of  
Agriculture and Forestry, University  
of Helsinki, Finland  
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### Ronaldo Sousa

Professor (**PhD Supervisor**)  
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of Minho, Portugal  
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