



**GEMA HERNAN MARTINEZ**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

**RESEARCH INTERESTS:** As a marine ecologist I am interested in fundamental and applied research in coastal systems. In particular, I seek to understand how environmental factors or other ecological state changes affect the processes and mechanisms of these systems at different levels, from individuals to communities, and at different spatial and temporal scales. My research interest focuses in three topics, 1) the effect of environmental changes in trophic interactions, 2) resilience of coastal systems to environmental and ecological changes and 3) environmental drivers of change in coastal systems. Most of my work focuses on marine macrophytes and my research is motivated by dual goals of advancing ecological knowledge and influencing management decisions. I take an integrative approach in physiology and ecology combining observational and experimental approaches, and modelling tools.

**EDUCATION AND TRAINING:** In 2011 I obtained my MSc. degree in Marine Science with a master thesis in persistent organic pollutants. I was awarded a grant in 2012 to participate in a short term project at the Center for Marine Science (Portugal) and in the Blanes Centre for Advanced Studies about the effects of eutrophication and acidification in seagrasses. The same year I was awarded a competitive Fellowship (FPI) to do my PhD in seagrass ecology at IMEDEA and during this time I was awarded 3 competitive grants to perform research in international institutions in US and Mexico and 2 awards to attend courses in Italy and Sweden about ocean acidification. I also participated in a research project at the Stazione Zoologica Anton Dohrn in Italy.

I was a Postdoctoral Scholar at Florida State University (FSU, 2018- 2020) on quantitative ecology. I was working on improving methods for monitoring marine biodiversity and on analyzing temporal and spatial trends of fish assemblages in the Gulf coast of Florida. I also collaborated with a researcher in the Department of Geography in applying spatial planning principles to marine ecosystem restoration, focused in seagrass meadows, mangroves and saltmarshes. I also mentored a PhD candidate on her research into geographic patterns of seagrass ecosystem services mainly blue carbon and biodiversity of marine vertebrates and invertebrates. During 2020 I have also mentored a Master student at the University of Barcelona on her research about the effects of herbivory on seagrasses. I have been invited to give lectures and seminars at FSU, Oregon State University and University of California Davis. Since I started my career as a marine ecologist, I have published 19 articles working with 70+ different coauthors from European and American countries.

**SERVICE AND OUTREACH:** I was the President of the FSU Postdoc Association advocating for +250 postdocs at FSU, I organized and chaired workshops, trainings and poster sessions, participated in reviews for Postdoctoral awards and I was an advisor in the Postdoc Advisory Board. I have been involved in outreach since I was an undergrad when started working as an outreach educator. During my PhD, I participated in different events in my institution, "Women



in Science” events and other events organized by “Observadores del mar”. I am a member of the “Skype a Scientist” program where I skype with schools from around the world talking about marine ecology and life as a scientist and I also participate in initiatives at FSU in open lab events and outreach events at neighborhood centers.

## General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

### 1) Aportaciones científico-técnicas

- 19 published articles (6 as first author),
- 219 citations (Google Scholar), 142 (Scopus)
- 24 communications at international conferences (8 as corresponding author)
- Reviewer for Q1 journals (Nature, Global Change Biology, Journal of Ecology...)
- Team member in 16 projects funded in competitive calls
- 5 travel awards to attend courses and conferences
- Outreach activities:

Outreach educator at Mundoazul medioambiente (2007-2010).

Member of "Skype a Scientist" since 2018.

Participant in "FSU Coastal and Marine Laboratory", "Women in Science" and "Observadores del mar" events.

Highlights in newspapers and media (RNE, TVE..).

### 2) Movilidad e internacionalización

- Postdoc Scholar at Florida State University (FSU) 2018-2020
- Visiting scholar at 3 international institutions (Oregon state university, Universidad Nacional Autónoma de México, Stazione Zoologica Anton Dohrn)
- + 70 coauthors from +15 institutions in US, Canada, Mexico, Chile, Portugal and Italy.
- 3 invited seminars and 3 guest lectures at US universities

### 3) Liderazgo

- 6 independent research proposals awarded in competitive calls

Postdoctoral Fellowship 2021-2023 (Spain)

Mobility of young researchers 2017 (US)

Becas Iberoamérica 2015 (Mexico)

UIB Research grant 2015 (US)

Predoctoral fellowship FPI 2012-2016 (Spain)

Short term scientific mission 2012 (Portugal)

- Supervisor of 1 PhD student (FSU Department of Geography) and 4 Master students (University of Barcelona/University of the Balearic Islands)
- instructor of record in summer school (Universidad de Murcia) and teaching assistant at the Master's in Marine Ecology (University of the Balearic Islands)
- Session coorganizer (International Seagrass Biology Workshop14, Aquatic Science meeting 2023)
- President of FSU Postdoctoral Association (2020)
- Vice President of FSU Postdoctoral Association (2019)
- Chair and organizer of Postdoc workshops (3) and a poster competition at FSU



- Member of the Postdoc Advisory Board at FSU (2019-2020) representing +250 postdocs at FSU (Board members: Director of Postdoctoral affairs, Dean of Graduate School, Director and Vice President for human resources, Vice President for Research, Dean of College of Arts & Sciences and Postdoc representatives)

#### 4) Otros méritos

- Judge of Florida Regional science fairs and FSU postdoctoral awards.
- Finalist at the Postdoctoral research competition at FSU

**GEMA HERNAN MARTINEZ**

Surname(s): **HERNAN MARTINEZ**  
 Name: **GEMA**  
 ORCID: **0000-0002-0806-9729**  
 ScopusID: **56347867200**  
 ResearcherID: **L-5693-2019**  
 Contact aut. region/reg.: **Balearic Islands**  
 Personal web page: **www.gemahernan.com**

**Current professional situation**

**Employing entity:** Institut Mediterrani d'Estudis Avançats **Type of entity:** Public Research Body

**Professional category:** Postdoctoral Fellow

**City employing entity:** Esporles, Balearic Islands, Spain

**Start date:** 30/04/2021

**Type of contract:** Grant-assisted student (pre or post-doctoral, others) **Dedication regime:** Full time

**Primary (UNESCO code):** 241705 - Marine biology; 251004 - Marine botany

**Secondary (UNESCO code):** 251090 - Oceanography: Marine Geology

**Tertiary (UNESCO code):** 310512 - Wild life conservation and management

**Performed tasks:** Postdoctoral fellowship awarded in relation to a project about the invasive macroalgae *Halimeda incrassata* detection and interaction with native species. I participate as team member in three more projects: -Dynamic and accumulation of microplastics in seagrass systems: exploring the Spanish systems. -Quantification and evaluation of seagrass conservation in sites with high anchoring disturbance. -New approaches to assist and assess seagrass Ecosystem Recovery. In these projects I have collaborated in the design, organization of sampling and data analysis. Besides, disseminating my work in scientific journals and conferences, I have Co-chaired a sessions on Carbon ecosystem services: The role of seagrasses in carbon cycling and climate change mitigation and adaptation in the International Seagrass Biology Workshop 14 (Aug.2022). I will also be Chairing a session on Plastic pollution in aquatic systems: the role of biogenic habitats in the dynamics and accumulation of plastics in the Aquatic Science ASLO (June 2023). I participate in outreach events such as the women and girls in science days or events related to "observadores del mar" . I mentor and advise Master students.

**Identify key words:** Marine pollution; Marine ecosystems and processes; Plant ecology; Applied ecology

**Applicability in teaching and/or research:** Training in relation to mentoring of students. Postdoc fellowship awarded in a competitive call

**Previous positions and activities**

|   | Employing entity                        | Professional category  | Start date |
|---|---|------------------------|------------|
| 1 | Florida State University                | Postdoctoral Associate | 15/10/2018 |
| 2 | Institut Mediterrani d'Estudis Avançats | PhD Fellow             | 14/12/2012 |
| 3 | Universidad de Murcia                   | Teaching assistant     | 08/09/2014 |

|    | Employing entity  | Professional category        | Start date |
|----|---|------------------------------|------------|
| 4  | Universidade do Algarve   | Research assistant           | 19/03/2012 |
| 5  | Institute of environmental assessment and water research                        | Research assistant           | 01/2011    |
| 6  | Mundo Azul Medioambiente  | Environmental Educator       | 07/05/2007 |
| 7  | INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA ( INIA ) | Research technician          | 03/05/2009 |
| 8  | WWF / Adena   | Coordinator                  | 01/09/2008 |
| 9  | Zoo Aquarium de Madrid  | Technical Director Assistant | 07/2007    |
| 10 | National Museum of Natural History  | Research assistant trainee   | 09/2006    |

- 1** **Employing entity:** Florida State University **Type of entity:** University  
**Department:** Biological Sciences, College of Arts and Sciences  
**City employing entity:** Tallahassee, United States of America  
**Professional category:** Postdoctoral Associate  
**Start-End date:** 15/10/2018 - 15/10/2020 **Duration:** 2 years  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 241705 - Marine biology; 251004 - Marine botany; 310512 - Wild lile conservation and management  
**Secondary (UNESCO code):** 240106 - Animal ecology  
**Tertiary (UNESCO code):** 310504 - Fish preservation  
**Performed tasks:** I was a postdoctoral scholar in the field of quantitative ecology and my research examined the environmental and ecological drivers of change in coastal communities. I worked on improving methods for monitoring marine biodiversity, exploring patterns of functional diversity and analyzing temporal and spatial trends of fish assemblages in relation to changes in sea surface temperature. In all these studies I used long term monitoring data analyzed with modeling tools. Moreover, I also collaborated with researchers in geography applying spatial planning principles for marine ecosystem restoration. I am mentoring a PhD candidate on her research into geographic patterns of seagrass ecosystem services using species distribution models to assess the effects of global change in these systems and selecting more suitable sites for restoracion.  
**Identify key words:** Marine ecosystem; Marine ecosystem management; Marine biodiversity  
**Applicability in teaching and/or research:** Mentoring of a PhD student Through my postdoctoral training, I am widening my research into the field of quantitative ecology to examine the environmental drivers of change in marine communities at higher temporal and spatial scales.
- 2** **Employing entity:** Institut Mediterrani d'Estudis Avançats **Type of entity:** Public Research Body  
**Department:** Ecology and Marine Resources, Institut Mediterrani d'Estudis Avançats  
**City employing entity:** Balearic Islands, Spain  
**Professional category:** PhD Fellow **Educational Management (Yes/No):** No  
**Start-End date:** 14/12/2012 - 30/11/2016 **Duration:** 3 years - 11 months - 15 days  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 241713 - Plant ecology; 251004 - Marine botany; 251005 - Marine zoology  
**Secondary (UNESCO code):** 230225 - Photosynthesis; 230606 - Carbohydrate chemistry; 230691 - Organic chemistry. Instrumental Analysis  
**Tertiary (UNESCO code):** 230331 - Water chemistry  
**Performed tasks:** The main purpose of my PhD was to understand the effect that climate change (ocean acidification, warming, eutrophication) had in marine plants and trophic relationships in

seagrass systems. During my PhD I had the opportunity to work in collaboration with other institutions in Spain, Mexico, Canada and the USA and I have designed, coordinated and performed all the projects of my PhD. I have also collaborated in several outreach events such as science fairs for students, women-in-science events with general public and radio and press interviews and I have mentored undergraduate and master students

**Applicability in teaching and/or research:** During my PhD I have learned to be both holistic and detail oriented, an excellent problem solver, resourceful, adaptative and flexible with critical thinking and analysis. I have excellent written and communication skills and experience in public outreach and college and master level teaching. Furthermore, during my PhD I acquired strong organizational and project management skills.

- 3** **Employing entity:** Universidad de Murcia **Type of entity:** University  
**Department:** Universidad Internacional del Mar  
**Professional category:** Teaching assistant **Educational Management (Yes/No):** No  
**Start-End date:** 08/09/2014 - 10/09/2014 **Duration:** 2 days  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 241713 - Plant ecology; 251004 - Marine botany  
**Performed tasks:** Teaching assistant in the summer course organized by the University of Murcia "Practical course on marine environmental management tools". I taught a lecture on herbivory in the marine environment and a training session on research tools to study herbivory in the marine environment.  
**Applicability in teaching and/or research:** I taught college students a lecture and a practical lesson providing them hands-on experience on some aspects of marine ecology. I learned how to summarize and teach complex concepts in an enjoyable way.
- 4** **Employing entity:** Universidade do Algarve  
**Department:** Center of Marine Science  
**Professional category:** Research assistant **Educational Management (Yes/No):** No  
**Start-End date:** 19/03/2012 - 20/05/2012 **Duration:** 2 months - 1 day  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 241713 - Plant ecology; 251004 - Marine botany  
**Performed tasks:** Research assistant in the project "Effects of increased CO<sub>2</sub> and nutrients on seagrass herbivory". I helped in the set up and maintenance of the mesocosm experiment with seagrasses, collected field samples, performed feeding experiments with herbivores (sea urchins and isopods) and took down the mesocosm experiment. I also helped in the laboratory analysis of chemical components of the plants (carbohydrates, phenolic compounds, phosphorus).  
**Applicability in teaching and/or research:** I participated in the set up and performance of the experiment, laboratory analysis and contributed to review the manuscript.
- 5** **Employing entity:** Institute of environmental assessment and water research **Type of entity:** R&D Centre  
**Professional category:** Research assistant **Educational Management (Yes/No):** No  
**Start-End date:** 01/2011 - 10/2011 **Duration:** 9 months  
**Type of contract:** Master student  
**Primary (UNESCO code):** 230102 - Biochemical analysis; 230690 - Chemistry of Natural Products Organic; 330304 - Chemical separation  
**Secondary (UNESCO code):** 230103 - Chromatographic analysis  
**Performed tasks:** Sampling, analysis and quantification of Persistent Organic Pollutants  
**Applicability in teaching and/or research:** I learned laboratory management and laboratory techniques of extraction, purification of samples and chromatography





- 6** **Employing entity:** Mundo Azul Medioambiente  
**Professional category:** Environmental Educator **Educational Management (Yes/No):** No  
**Start-End date:** 07/05/2007 - 07/05/2010 **Duration:** 3 years  
**Type of contract:** Temporary  
**Dedication regime:** Part time  
**Primary (UNESCO code):** 240106 - Animal ecology; 241005 - Human ecology; 241713 - Plant ecology  
**Performed tasks:** Outreach workshops and activities with students from 3 -17 years.
- 7** **Employing entity:** INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA ( INIA )  
**Professional category:** Research technician **Educational Management (Yes/No):** No  
**Start-End date:** 03/05/2009 - 03/05/2010 **Duration:** 1 year  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 230103 - Chromatographic analysis; 241700 - Plant Biology (Botany); 330304 - Chemical separation  
**Performed tasks:** Extraction of antioxidants and oils from medicinal plants, analysis of results, field sampling and prospecting.  
**Applicability in teaching and/or research:** I learned laboratory management and techniques of sample preparation, extraction, purification and chromatography (liquid and gas)
- 8** **Employing entity:** WWF / Adena **Type of entity:** Associations and Groups  
**Professional category:** Coordinator **Educational Management (Yes/No):** No  
**Start-End date:** 01/09/2008 - 01/09/2008 **Duration:** 1 month  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 240100 - Animal Biology (Zoology); 240106 - Animal ecology; 310512 - Wild life conservation and management  
**Secondary (UNESCO code):** 531104 - Manpower management  
**Performed tasks:** Coordination of volunteers, environmental outreach, surveys of sea birds and benthonic invertebrates.  
**Applicability in teaching and/or research:** I learned survey techniques for birds and marine benthonic invertebrates. I performed environmental outreach with the volunteers, teaching about the marine environment, wildlife conservation and island geology.
- 9** **Employing entity:** Zoo Aquarium de Madrid **Type of entity:** Business  
**Professional category:** Technical Director **Educational Management (Yes/No):** No  
Assistant  
**Start-End date:** 07/2007 - 09/2007 **Duration:** 3 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Primary (UNESCO code):** 240100 - Animal Biology (Zoology); 240102 - Animal behaviour; 240103 - Animal communication  
**Performed tasks:** Design of animal installations, work protocols and behavioural studies
- 10** **Employing entity:** National Museum of Natural History **Type of entity:** Public Research Body  
**Professional category:** Research assistant **Educational Management (Yes/No):** No  
trainee  
**Start-End date:** 09/2006 - 02/2007 **Duration:** 5 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)



**Primary (UNESCO code):** 240100 - Animal Biology (Zoology); 240102 - Animal behaviour; 240106 - Animal ecology

**Performed tasks:** Radiotracking, surveying, collection of samples and analysis in the laboratory to study the diet and land use of the Great Bustard



## Education

### University education

#### 1st and 2nd cycle studies and pre-Bologna degrees

- 1** **University degree:** Higher degree  
**Name of qualification:** MSc in Marine Science  
**Degree awarding entity:** Universitat de Barcelona **Type of entity:** University  
**Date of qualification:** 10/10/2011
- 2** **University degree:** Higher degree  
**Name of qualification:** BSc in Biology  
**Degree awarding entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Date of qualification:** 07/07/2008

#### Doctorates

**Doctorate programme:** Doctorate programme in Marine Ecology  
**Degree awarding entity:** Universitat de les Illes Balears **Type of entity:** University  
**Date of degree:** 29/09/2017  
**Thesis title:** Defense strategies against herbivory in seagrasses  
**Thesis director:** Fiona Tomas  
**Thesis co-director:** Jorge Terrados  
**Obtained qualification:** Cum Laude

### Language skills

| Language | Listening skills | Reading skills | Spoken interaction | Speaking skills | Writing skills |
|----------|------------------|----------------|--------------------|-----------------|----------------|
| Catalan  | B2               | B2             | B2                 | B2              | B2             |
| French   | B2               | B2             | B2                 | B2              | B2             |
| English  | C1               | C1             | C1                 | C1              | C1             |

## Teaching experience



## Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Efectos del anclaje sobre las comunidades de epifauna en praderas de Posidonia oceanica  
**Entity:** University of the Balearic Islands **Type of entity:** University  
**Student:** Julia Llinas Cuart  
**Date of reading:** 15/09/2023
- 2** **Project title:** Effects of global change on seagrass defense strategies against herbivory: a metanalysis  
**Entity:** University of Barcelona and Open University of Catalonia **Type of entity:** University  
**Student:** Andres Arona  
**Date of reading:** 21/07/2023
- 3** **Project title:** Efectos del anclaje sobre las comunidades de fauna en praderas de Posidonia oceanica.  
**Type of project:** Master thesis  
**Entity:** Universitat de Barcelona **Type of entity:** University  
**City of entity:** Barcelona, Catalonia, Spain  
**Student:** Adrián Daza Sevillano  
**Date of reading:** 23/09/2022
- 4** **Project title:** Evaluación del papel de las comunidades costeras en la dinámica y acumulación de microplásticos  
**Type of project:** Master Thesis  
**Co-director of thesis:** Fiona Tomas  
**Entity:** Universitat de Barcelona **Type of entity:** University  
**Student:** Esther Rodriguez Rodriguez  
**Date of reading:** 15/09/2022
- 5** **Project title:** Geographic patterns of marine biodiversity and ecosystem services benefits in the Anthropocene  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Sarah Lester; Andrew Rassweiler  
**Entity:** Florida State University **Type of entity:** University  
**City of entity:** Tallahassee, United States of America  
**Student:** Jennifer McHenry  
**Date of reading:** 30/06/2022
- 6** **Project title:** Efectes de l'herbivorisme en fanerògames marines: una revisió bibliogràfica  
**Type of project:** Master Thesis  
**Entity:** Universitat de Barcelona **Type of entity:** University  
**Student:** Andrea Gros Gomez  
**Date of reading:** 06/11/2020



## Teaching experience in courses and seminars for university teacher training

- 1** **Type of event:** Course  
**Name of the event:** Technical meeting on ocean acidification meta-analyses using the Ocean Acidification International Coordination Centre bibliographic database and other data resources  
**Organising entity:** Ocean Acidification International      **Type of entity:** Public Research Body  
Coordination Centre of the International Atomic Energy Agency  
**Hours of teaching:** 20  
**Teaching date:** 13/02/2023
- 2** **Type of event:** Seminar  
**Name of the event:** Spring Seminar Series  
**Organising entity:** Bodega Marine Laboratory-UCDavis  
**Hours of teaching:** 1  
**Teaching date:** 03/06/2020
- 3** **Type of event:** Bachelor level Class  
**Name of the event:** Guest Lecturer at Careers in Biological Science  
**Organising entity:** Florida State University      **Type of entity:** University  
**Hours of teaching:** 1  
**Teaching date:** 15/10/2019
- 4** **Type of event:** Seminar  
**Name of the event:** Ecology and Evolution Seminar series  
**Organising entity:** Florida State University  
**Hours of teaching:** 1  
**Teaching date:** 12/04/2019
- 5** **Type of event:** Bachelor level Course  
**Name of the event:** Guest Lecturer Seminar in Biological Frontiers  
**Organising entity:** Florida State University  
**Hours of teaching:** 1  
**Teaching date:** 20/02/2019
- 6** **Type of event:** Seminar  
**Name of the event:** Hatfield Research Seminar Series  
**Organising entity:** Oregon State University  
**Hours of teaching:** 1  
**Teaching date:** 12/04/2018
- 7** **Type of event:** Workshop  
**Name of the event:** Summer course  
**Organising entity:** Universidad de Murcia      **Type of entity:** University  
**Hours of teaching:** 25  
**Teaching date:** 08/09/2014



- 8** **Type of event:** Course  
**Name of the event:** Practicas de Ecología Acuática y Biología Marina  
**Organising entity:** Universidad de las Islas Baleares **Type of entity:** University  
**Target group profile:** Master  
**Hours of teaching:** 8  
**Teaching date:** 09/01/2014  
**Type of participation:** Teacher assistant

## Scientific and technological experience

### Scientific or technological activities

#### R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** New approaches to assist and assess seaGRASS Ecosystem REcovery (GRASSREC)  
**Entity where project took place:** Institut Mediterrani **Type of entity:** Public Research Body d'Estudis Avançats  
**Name principal investigator (PI, Co-PI....):** Fiona Tomas  
**Nº of researchers:** 13  
**Start-End date:** 01/12/2021 - 01/12/2025  
**Total amount:** 180.290 €
- 2** **Name of the project:** Exploring strategies to facilitate and improve the success and resilience in seagrass restoration  
**Entity where project took place:** Institut Mediterrani **Type of entity:** Public Research Body d'Estudis Avançats  
**Name principal investigator (PI, Co-PI....):** Fiona Tomas  
**Nº of researchers:** 2  
**Start-End date:** 01/12/2022 - 01/12/2024  
**Total amount:** 255.300 €
- 3** **Name of the project:** Análisis de los cambios del estado de la posidonia y su fauna asociada en función de la intensidad del fondeo (ESTPOS)  
**Entity where project took place:** Institut Mediterrani **Type of entity:** Public Research Body d'Estudis Avançats  
**Start-End date:** 05/02/2020 - 29/12/2023  
**Total amount:** 49,32 €
- 4** **Name of the project:** A new invasive algae in the Mediterranean: invasibility, detection and eradication (invhali)  
**Entity where project took place:** Institut Mediterrani **Type of entity:** Public Research Body d'Estudis Avançats  
**Start-End date:** 05/02/2020 - 30/12/2022
- 5** **Name of the project:** Dinámica y acumulación del microplástico costero en comunidades de fanerógamas marinas: explorando los ecosistemas del litoral español (MICROFAM).  
**Geographical area:** National



**Degree of contribution:** Researcher

**Entity where project took place:** Institut Mediterrani **Type of entity:** Public Research Body  
d'Estudis Avançats

**City of entity:** Esporles, Balearic Islands, Spain

**Nº of researchers:** 6

**Type of participation:** Team member

**Start-End date:** 15/05/2020 - 15/05/2022

**6 Name of the project:** Developing an integrated monitoring and assessment framework for evaluating ecosystem service outcomes from seagrass restoration in the Gulf of Mexico

**Entity where project took place:** Florida State University **Type of entity:** University

**City of entity:** Tallahassee, United States of America

**Name principal investigator (PI, Co-PI....):** Sarah Lester

**Funding entity or bodies:**

The National Academy of Sciences

**Type of entity:** Public Research Body

**Start-End date:** 15/05/2018 - 15/05/2021

**Total amount:** 365.699 €

**7 Name of the project:** Demonstrating an Effective Marine Biodiversity Observation Network in the Santa Barbara Channel

**Type of project:** Research and development,  
including transfer

**Geographical area:** Non EU International

**Degree of contribution:** Researcher

**Entity where project took place:** Florida State University

**Name principal investigator (PI, Co-PI....):** Robert Miller; D. Siegel; C. Carlson; K. Lafferty; A. Rassweiler; D. Reed; P. Kyriakidis; D Iglesias-Rodriguez; B.S. Manjunath; M. Love; A. Thompson; J. Hildebrand; D McCauley

**Nº of researchers:** 13

**Funding entity or bodies:**

National Aeronautics and Space Administration  
(NASA)

**Type of entity:** State agency

**City funding entity:** United States of America

**Type of participation:** Team member

**Start-End date:** 15/10/2018 - 15/10/2020

**Duration:** 6 years

**Total amount:** 3.591.869 €

**Dedication regime:** Full time

**Applicant's contribution:** As a team member I use existing datasets from the Santa Barbara Channel Islands for different studies on the comparison of different sampling methodologies with the objective to establish optimal investment pathways in biodiversity monitoring and also on the environmental patterns of functional diversity in Kelp forests.

**8 Name of the project:** Compresión holística del funcionamiento y resiliencia de una fanerógama marina a perturbaciones locales: de escalas moleculares a escalas biogeográficas.

**Entity where project took place:** Institut Mediterrani **Type of entity:** Public Research Body  
d'Estudis Avançats

**Name principal investigator (PI, Co-PI....):** Fiona Tomas Nash; Jorge Terrados Muñoz

**Funding entity or bodies:**

Ministerio de Economía y Competitividad

**Type of entity:** Public Research Body

**City funding entity:** Spain

**Type of participation:** Team member



**Start-End date:** 09/2015 - 09/2018

**Total amount:** 153.670 €

**9 Name of the project:** Herbiome: The unexplored link between herbivore diet and microbiome.

**Entity where project took place:** OREGON STATE UNIVERSITY

**Name principal investigator (PI, Co-PI...):** GEMA HERNAN MARTINEZ

**N° of researchers:** 1

**Type of participation:** Principal investigator

**Start-End date:** 01/06/2017 - 01/06/2017

**Duration:** 3 months

**Total amount:** 2.500 €

**10 Name of the project:** Defense strategies against herbivory in seagrasses

**Entity where project took place:** Institut Mediterrani d'Estudis Avançats **Type of entity:** Public Research Body

**N° of researchers:** 1

**Funding entity or bodies:**

Govern de les Illes Balears

**Type of entity:** State Agency

**City funding entity:** Palma de Mallorca, Balearic Islands, Spain

**Type of participation:** Principal investigator

**Start-End date:** 01/12/2012 - 30/11/2016

**Total amount:** 62.400 €

**11 Name of the project:** Photobiology of the seagrass Halodule wrightii

**Entity where project took place:** UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO **Type of entity:** University

**City of entity:** Mexico

**N° of researchers:** 1

**Funding entity or bodies:**

FUNDACION BANCO SANTANDER

**Type of entity:** Foundation

**City funding entity:** Spain

**Type of participation:** Principal investigator

**Start-End date:** 01/02/2016 - 15/05/2016

**Duration:** 3 months

**Total amount:** 4.000 €

**Dedication regime:** Full time

**12 Name of the project:** ZEN defense. Latitudinal effects of defense strategies against herbivory in the seagrass Zostera marina

**Type of project:** Basic research (including archaeological digs, etc)

**Entity where project took place:** OREGON STATE UNIVERSITY **Type of entity:** University

**City of entity:** United States of America

**N° of researchers:** 1

**Funding entity or bodies:**

Universitat de les illes balears

**Type of entity:** University

**City funding entity:** PALMA DE MALLORCA, Spain

**Type of participation:** Principal investigator

**Start-End date:** 15/05/2015 - 15/09/2015

**Total amount:** 2.500 €





- 13** **Name of the project:** Circumnavigation Expedition Malaspina 2010: Global Change and Biodiversity. Exploration of the Global Ocean.  
**Name principal investigator (PI, Co-PI....):** Carlos Duarte  
**Funding entity or bodies:**  
Spanish Ministry of Science and Innovation **Type of entity:** State agency  
**Type of participation:** Team member  
**Start-End date:** 05/2009 - 05/2014
- 14** **Name of the project:** Seagrass restoration through seedlings: effects of light, nutrients and herbivory.  
**Entity where project took place:** Institut Mediterrani **Type of entity:** Public Research Body d'Estudis Avançats  
**Funding entity or bodies:**  
Spanish Ministry of Science and Innovation **Type of entity:** State agency  
**Type of participation:** Team member  
**Start-End date:** 03/2011 - 12/2013  
**Total amount:** 148.000 €
- 15** **Name of the project:** Seagrass-herbivore interactions in an acidified and eutrophic ocean.  
**Entity where project took place:** Centro de Estudios Avanzados de Blanes **Type of entity:** State agency  
**Name principal investigator (PI, Co-PI....):** Fiona Tomas Nash; Begoña Martinez Crego  
**Funding entity or bodies:**  
Padi Foundation, **Type of entity:** Associations and Groups  
**City funding entity:** United States of America  
**Type of participation:** Team member  
**Start-End date:** 03/2012 - 03/2013  
**Total amount:** 5.000 €
- 16** **Name of the project:** Selection and breeding for its agronomic behaviour and richness in active principles of spanish wild populations of Lavandula latifolia, Rosmarinus officinalis, Salvia lavandulifolia y Thymus mastichina.  
**Name principal investigator (PI, Co-PI....):** Maria Angeles Cases  
**Nº of researchers:** 19  
**Funding entity or bodies:**  
Spanish Ministry of Science and Innovation. **Type of entity:** State agency  
**City funding entity:** Spain  
**Type of participation:** Team member  
**Start-End date:** 01/2010 - 12/2012  
**Total amount:** 224.340 €
- 17** **Name of the project:** Independent and interactive effects of increased CO2 and nutrients on seagrass – herbivore interactions  
**Entity where project took place:** Center for Marine Science. Universidade do Algarve **Type of entity:** University  
**City of entity:** Algarve, Portugal  
**Name principal investigator (PI, Co-PI....):** Fiona Tomas Nash  
**Funding entity or bodies:**  
European Union FP7 research infrastructure program **Type of entity:** Public Research Body ASSEMBLE (Association of European Marine Biological Laboratories)



**Type of participation:** Team member  
**Start-End date:** 02/2012 - 08/2012  
**Total amount:** 5.000 €

**18 Name of the project:** Gentian studies in the occidental mountains of Leon for a comprehensive management.

**Name principal investigator (PI, Co-PI....):** Federico Varela; Carlos Soriano; Pedro Casquero

**Nº of researchers:** 10

**Funding entity or bodies:**

Junta de Castilla y León

**Type of entity:** Regional body

**City funding entity:** Valladolid, Castile and León, Spain

**Type of participation:** Team member

**Start-End date:** 07/2008 - 07/2012

**Total amount:** 109.000 €

**19 Name of the project:** Fish herbivory under a gradient of ocean acidification

**Entity where project took place:** CENTER FOR MARINE SCIENCE. UNIVERSIDADE DO ALGARVE **Type of entity:** University

**Nº of researchers:** 1

**Funding entity or bodies:**

COST-EU framework programme

**Type of entity:** State agency

**Type of participation:** Principal investigator

**Start-End date:** 19/03/2012 - 20/05/2012

**Duration:** 2 months

**Total amount:** 2.500 €

**20 Name of the project:** Survey and cataloging of genetic resources of aromatic plants in Baleares, selection of mother plant for genera of commercial interest.

**Name principal investigator (PI, Co-PI....):** Maria Angeles Cases

**Nº of researchers:** 3

**Funding entity or bodies:**

Govern de les Illes Balears

**Type of entity:** Regional Body

**City funding entity:** Palma de Mallorca, Balearic Islands, Spain

**Type of participation:** Team member

**Start-End date:** 12/2008 - 12/2009

**Total amount:** 112.130 €



## Scientific and technological activities

### Scientific production

**H index:** 8

**Date of application:** 15/11/2022

**Fuente de Índice H:** GOOGLE SCHOLAR

### Publications, scientific and technical documents

- 1** Gema Hernán; Maria J Ortega; Jeremy Henderson; Josep Alós; Katharyn Boyer; Stephanie Cimon; Vincent Combes; Mathieu Cusson; Clara M Hereu; Margot Hessing-Lewis; Kevin Hovel; Pablo Jorgensen; Stephanie Kiriakopolos; Nicole Kollars; Mary I O' Connor; Jeanine Olsen; Pamela L. Reynolds; Jennifer Ruesink; Erin Voigt; Fiona Tomas. Latitudinal variation in plant defence against herbivory in a marine foundation species does not follow a linear pattern: The importance of resource availability. *Global Ecology and Biogeography*. 30 - 1, pp. 220 - 234. Wiley, 16/12/2020.
- Type of production:** Scientific paper  
**Position of signature:** 1
- Total no. authors:** 20  
**Impact source:** ISI  
**Impact index in year of publication:** 6.446  
**Position of publication:** 11
- Relevant publication:** Yes
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Ecology  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 169
- 2** Gema Hernan; Ines Castejón; Jorge Terrados; Fiona Tomas. Herbivory and resource availability shift plant defense and herbivore feeding choice in a seagrass system. *Oecologia*. 189 - 3, pp. 719 - 732. Springer, 26/02/2019.
- Type of production:** Scientific paper  
**Position of signature:** 1
- Total no. authors:** 4  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 3.1  
**Position of publication:** 52
- Relevant publication:** Yes
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Ecology  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 165
- 3** J McHenry; A Rassweiler; G Hernán; AK Dubel; C Curtin; N Varias; S.E. Lester. Geographic variation in blue carbon stored by seagrass beds in Florida. *Limnology and Oceanography*. 10/03/2023.
- Type of production:** Scientific paper  
**Position of signature:** 3
- Total no. authors:** 7  
**Impact source:** ISI  
**Impact index in year of publication:** 5.438  
**Position of publication:** 4
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Oceanography  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 66

- 4** J Mañez-Crespo; F Tomas; Y Fernandez-Torquemada; L Royo; F Espino; L Antich; N E Bosch; I Castejón; G Hernan; C Marco-Méndez; A Mateo-Ramírez; L Pereda-Briones; Y del Pilar-Ruso; J Terrados; F Tuya. Variation in fish abundance, diversity and assemblage structure in seagrass meadows across the Atlanto-Mediterranean province. *Diversity*. 14 - 10, 28/09/2022.
- Type of production:** Scientific paper  
**Position of signature:** 9  
**Total no. authors:** 15  
**Impact source:** ISI  
**Impact index in year of publication:** 2.465
- Format:** Journal  
**Corresponding author:** No  
**Category:** Science Edition - BIODIVERSITY CONSERVATION  
**Journal in the top 25%:** No
- 5** A Mateo-Ramírez; J MañezCrespo; L Royo; F Tuya; I Castejon; G Hernan; L Pereda-Briones; J Terrados; F Tomas. A tropical macroalga (*Halimeda incrassata*) enhances diversity and abundance of epifaunal assemblages in Mediterranean seagrass meadows. *Frontiers in Marine Science*. 9 - 886009, Frontiers, 23/06/2022.
- Type of production:** Scientific paper  
**Position of signature:** 6  
**Total no. authors:** 9  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 5.247
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** marine and freshwater biology  
**Journal in the top 25%:** Yes
- 6** Gema Hernan; M.J. Ortega; Fiona Tomas. Specialized compounds across ontogeny in the seagrass *Posidonia oceanica*. *Phytochemistry*. 196, Elsevier, 15/04/2022. Available on-line at: <<https://doi.org/10.1016/j.phytochem.2021.113070>>.
- Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 3  
**Impact source:** ISI  
**Impact index in year of publication:** 4.072  
**Position of publication:** 44
- Format:** Journal  
**Corresponding author:** Yes  
**Category:** Plant Science  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 235
- 7** Gema Hernan; A.K. Dubel; J. Caselle; D.J. Kushner; R.J. Miller; D.C. Reed; J. Sprague; A Rassweiler. Measuring the efficiency of alternative biodiversity monitoring sampling strategies. *Frontiers in Marine Science*. Frontiers, 24/03/2022.
- Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 8  
**Impact source:** ISI  
**Impact index in year of publication:** 5.247  
**Position of publication:** 6
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Science Edition - MARINE & FRESHWATER BIOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 113
- 8** L. González; R Vásquez; T. Lopez; G Hernán; R Iglesias-Prieto; S Enriquez. Validation of parameters and protocols derived from chlorophyll a fluorescence commonly utilized in marine ecophysiological studies. *Functional Plant Biology*. 20/08/2021.
- Type of production:** Scientific paper  
**Position of signature:** 4
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 6  
**Impact source:** ISI  
**Impact index in year of publication:** 3.101  
**Position of publication:** 70

**Corresponding author:** No  
**Category:** Science Edition - PLANT SCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 235

- 9** J. McHenry; A. Rassweiler; Gema Hernan; C.K. Uejio; S Pau; A.K. Dubel; S.E. Lester. Modeling the biodiversity enhancement value of seagrass beds. Diversity and Distributions. 27, pp. 2036 - 2049. Wiley, 09/07/2021.

**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 7  
**Impact source:** ISI  
**Impact index in year of publication:** 5.139  
**Position of publication:** 28

**Format:** Journal  
**Corresponding author:** No  
**Category:** Ecology  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 166

- 10** Julia Máñez-Crespo; Fernando Tuya; Yolanda Fernández-Torquemada; Laura Royo; Yoana del Pilar-Ruso; Fernando Espino; Pablo Manent; Laura Antich; Inés Castejón-Silvo; Leticia Curbelo; Jose A. de la Ossa; Gema Hernan; Ángel Mateo-Ramírez; Laura Pereda-Briones; Rocio Jiménez-Ramos; Luis G. Egea; Gabriele Procaccini; Jorge Terrados; Fiona Tomas. Seagrass Cymodocea nodosa across biogeographical regions and times: Differences in abundance, meadow structure and sexual reproduction. Marine Environmental Research. 162 - 105159, 01/12/2020.

**Type of production:** Scientific paper  
**Position of signature:** 12  
**Total no. authors:** 19  
**Impact source:** ISI  
**Impact index in year of publication:** 3.42

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No

- 11** Sarah E. Lester; A.K. Dubel; Gema Hernan; Jennifer Mc Henry; Andrew Rassweiler. Spatial planning principles for marine ecosystem restoration. Frontiers in Marine Science. 7 - 328, 20/05/2020.

**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 5  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 4.4

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - MARINE & FRESHWATER BIOLOGY  
**Journal in the top 25%:** Yes

- 12** Andrew Rassweiler; A. Dubel; Gema Hernan; J. D. Kushner; Jennifer E. Caselle; Joshua L. Sprague; Li Kui; Thomas Lamy; Sarah E. Lester; Robert J. Miller. Roving divers surveying fish in fixed areas capture similar patterns in biogeography but different estimates of density when compared with belt transects. Frontiers in Marine Science. 7 - 272, 07/05/2020.

**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 10  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 4.4

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - MARINE & FRESHWATER BIOLOGY  
**Journal in the top 25%:** Yes

- 13** Cristobal Galbán-Malagón; Gema Hernán; Esteban Abad; Jordi Dachs. Persistent Organic Pollutants in Krill from the Bellingshausen, South Scotia, and Weddell Seas. *Science of the Total Environment*. 610-611, pp. 1487 - 1495. Elsevier, 09/09/2017.  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 4  
**Impact source:** InCites Journal Citation Reports  
**Impact index in year of publication:** 4.9  
**Position of publication:** 22  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Environmental Science (miscellaneous)  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 229
- 14** Gema Hernán; Maria Jose Ortega; Alberto-Martinez Gándara; Ines Castejon; Jorge Terrados; Fiona Tomas. Future warmer seas: increased stress and susceptibility to grazing in seedlings of a marine habitat-forming species. *Global Change Biology*. 23 - 11, pp. 4530 - 4543. Wiley-Blackwell, 26/06/2017.  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 6  
**Impact source:** InCites  
**Impact index in year of publication:** 8.502  
**Position of publication:** 5  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Ecology  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 229
- 15** Gema Hernán; Laura Ramajo; Lorena Basso; Antonio Delgado; Jorge Terrados; Carlos Duarte; Fiona Tomas. Seagrass (*Posidonia oceanica*) seedlings in a high-CO<sub>2</sub> world: from physiology to herbivory. *Scientific reports*. 6, Nature, 01/12/2016.  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 7  
**Impact source:** InCites  
**Impact index in year of publication:** 4.259  
**Position of publication:** 10  
**Source of citations:** CrossRef  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Science Edition - ENVIRONMENTAL SCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 64  
**Citations:** 3
- 16** Fiona Tomas; Begoña Martinez-Crego; Gema Hernan; Rui Santos. Responses of seagrass to anthropogenic and natural disturbances do not equally translate to its consumers. *Global Change Biology*. 21 - 11, pp. 4021 - 4030. Wiley-Blackwell, 23/09/2015.  
**Type of production:** Scientific paper  
**Corresponding author:** No  
**Impact source:** InCites  
**Impact index in year of publication:** 8.444  
**Position of publication:** 4  
**Category:** Ecology  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 225
- 17** Laura Morales; Jordi Dachs; Belén Gonzalez-Gaya; Gema Hernán; Manuela Abalos; Esteban Abad. Background Concentrations of Polychlorinated Dibenzo-p-Dioxins, Dibenzofurans, and Biphenyls in the Global Oceanic Atmosphere. *Environmental Sciences and Technology*. 48 - 17, pp. 10198 - 10207. American Chemical Society, 01/08/2014.  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Format:** Journal

**Total no. authors:** 6**Impact source:** InCites**Impact index in year of publication:** 5.330**Position of publication:** 10**Source of citations:** Crossref**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - ENVIRONMENTAL SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 223**Citations:** 20

- 18** Federico Varela; A Peluzzo; F Berrio; L De La Rosa; A Ruano; A Meana; D Gomez; R.M. García; J.R Larreina; E. Diaz; T. Marcos; Gema Hernan; David Sanchez de Ron; H. Pascual. El Centro de Recursos Fitogenéticos - INIA: Variedades tradicionales de plantas cultivadas recolectadas en Andalucía (1929-2009). Actas de Horticultura. 55, pp. 39 - 40. Sociedad Española de Ciencias Hortícolas, 08/07/2010.

**Type of production:** Scientific paper**Position of signature:** 12**Total no. authors:** 14**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No

- 19** M. Angeles Cases; P. Navarrete; D. Pérez-Mao; Gema Hernan; Pablo Lopez-Cepero; D. Sánchez; P. Varela. Recursos genéticos y caracterización química de plantas aromáticas y medicinales en las Islas Pitiusas. Actas de Horticultura. 55, pp. 29 - 30. 2010.

**Type of production:** Scientific paper**Position of signature:** 4**Total no. authors:** 7**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No

- 20** F Tomas; L Royo; A Mateo-Ramírez; J Máñez-Crespo; L Curbelo; M Amigo; L Antich; S Capó-Bauçà; I Castejón; G Hernan; C Íñiguez-Moreno; L Pereda-Briones; M Villasevil; G Procaccinii; J Terrados; F Tuya. Praderas de cymodocea nodosa del PN Archipiélago de Cabrera: el papel de la diversidad genética en el funcionamiento del ecosistema y sus implicaciones para la conservación. Proyectos de Investigación en Parques Nacionales. pp. 341 - 364. Organismo Autónomo de Parques Nacionales, MITECO, 15/12/2022.

**Type of production:** Scientific book or monograph**Corresponding author:** No

## Works submitted to national or international conferences

- 1** **Title of the work:** Latitudinal variation in plant defence against herbivory in a marine foundation species does not follow a linear pattern: The importance of resource availability  
**Name of the conference:** Ecological Society of America 2021 Virtual annual meeting  
**Corresponding author:** Yes  
**City of event:** United States of America  
**Date of event:** 02/08/2021  
**End date:** 06/08/2021  
**Organising entity:** Ecological Society of America     **Type of entity:** Associations and Groups  
 Gema Hernan; Maria J. Ortega; Jeremy Henderson; Josep Alós; Katharyn Boyer; Stephanie Cimon; Vincent Combes; Matieu Cusson; Clara Hereu; Margot Hessing-Lewis; Kevin Hovel; Pablo Jorgensen; Stephanie Kiriakopolos; Nicole Kollars; Mary O'Connor; Jeanine Olsen; Pamela L. Reynolds; Jennifer Ruesink; Erin Voigt; Fiona Tomas.



- 2** **Title of the work:** Responses of the seagrass *Cymodocea nodosa* to herbivory vary across biogeographical regions  
**Name of the conference:** ASLO 2021 Aquatic Sciences Meeting  
**Corresponding author:** No  
**City of event:** ONLINE,  
**Date of event:** 22/06/2021  
**End date:** 28/06/2021  
**Organising entity:** Association for the science of Limnology and oceanography  
Máñez-Crespo; Tuya; Fernández-Torquemada; Royo; Espino; Manent; Antich; Castejón; Curbelo; de la Ossa4; del Pilar-Ruso4; Egea; Hernan; Jiménez-Ramos; Mateo-Ramírez; Pereda-Briones; Procaccini; Terrados; Tomas.
- 3** **Title of the work:** How to choose the best mix of methods for sampling biodiversity  
**Name of the conference:** 101st Annual meeting Western society of naturalists  
**Corresponding author:** No  
**City of event:** Online,  
**Date of event:** 05/11/2020  
**End date:** 08/11/2020  
**Organising entity:** Western society of naturalists  
Rassweiler; Hernan; Dubel.
- 4** **Title of the work:** Choosing an efficient portfolio of sampling strategies for monitoring marine biodiversity  
**Name of the conference:** Ocean Science Meeting  
**Corresponding author:** No  
**City of event:** San Diego, United States of America  
**Date of event:** 16/02/2020  
**End date:** 21/02/2020  
**Organising entity:** Association for the Sciences of Limnology and Oceanography  
Andrew Rassweiler; A.K. Dubel; Gema Hernan. **Type of entity:** Associations and Groups
- 5** **Title of the work:** Comparing the efficiency of biodiversity monitoring sampling programs  
**Name of the conference:** Ocean Science Meeting  
**Corresponding author:** Yes  
**City of event:** San Diego, United States of America  
**Date of event:** 16/02/2020  
**End date:** 21/02/2020  
**Organising entity:** Association for the Sciences of Limnology and Oceanography  
Gema HERNAN; A.K Dubel; Andrew Rasweiler. **Type of entity:** Associations and Groups
- 6** **Title of the work:** Comparing the efficiency of biodiversity monitoring programs  
**Name of the conference:** Ecological Society of America Annual meeting  
**Corresponding author:** Yes  
**City of event:** United States of America  
**Date of event:** 11/08/2019  
**End date:** 16/08/2019  
**Organising entity:** Ecological Society of America  
Andrew Rassweiler; Alex Dubel; Gema Hernan.





- 7** **Title of the work:** Evidence of biotic resistance in a temperate seagrass bed: the role of grazers  
**Name of the conference:** Western Society of Naturalists Meeting  
**City of event:** Tacoma, United States of America  
**Date of event:** 08/11/2018  
**End date:** 11/11/2018  
**Organising entity:** Western Society of Naturalists Meeting  
Michael Moses; Gema Hernan; Jennifer Hayduk; Alex morris; Christina Mauney; Fiona Tomas.
- 8** **Title of the work:** Resistance and tolerance responses to herbivory under increased nutrient conditions and their effects on seagrass palatability  
**Name of the conference:** Ecological Society of America Annual meeting  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Corresponding author:** Yes  
**City of event:** Portland, United States of America  
**Date of event:** 06/08/2017  
**End date:** 11/08/2017  
**Organising entity:** Ecological Society of America      **Type of entity:** Associations and Groups  
Gema Hernan; Ines Castejon; Jorge Terrados; Fiona Tomas.
- 9** **Title of the work:** From BC to Baja: a macroecological study examining strategies against herbivory in the seagrass *Zostera marina*  
**Name of the conference:** Pacific Estuarine Research and California Estuarine Research Societies Meeting  
**City of event:** Coos Bay, United States of America  
**Date of event:** 16/03/2017  
**End date:** 19/03/2017  
**Organising entity:** Pacific Estuarine Research and California Estuarine Research Societies  
Fiona Tomas; Gema Hernan; Jeremy Henderson; Josep Alos.
- 10** **Title of the work:** Seagrass (*Posidonia oceanica*) seedlings in a high CO<sub>2</sub> world: from physiology to herbivory  
**Name of the conference:** 12th International Seagrass Biology Workshop  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Corresponding author:** Yes  
**City of event:** Nant Gwrtheyrn, West Wales and The Valleys, United Kingdom  
**Date of event:** 17/10/2016  
**End date:** 23/10/2016  
**Organising entity:** World Seagrass Association      **Type of entity:** Associations and Groups  
Gema Hernan; Laura Ramajo; Lorena Basso; Antonio Delgado; Jorge Terrados; Carlos Duarte; Fiona Tomas.
- 11** **Title of the work:** Tropicalisation of the Mediterranean Sea: potential impacts of warming on native seagrass-herbivore interactions  
**Name of the conference:** Coastal Estuarine Research Federation (CERF) meeting  
**Type of participation:** Participatory - oral communication  
**City of event:** Portland, United States of America  
**Date of event:** 08/11/2015  
**End date:** 12/11/2015  
**Organising entity:** Coastal Estuarine Research Federation (CERF)      **Type of entity:** Associations and Groups



Fiona Tomas; Gema Hernan; Alberto Martinez; Jorge Terrados.

- 12** **Title of the work:** Ocean acidification enhances fish herbivory on seagrass  
**Name of the conference:** 145th annual meeting of the American Fisheries Society  
**Type of participation:** Participatory - oral communication  
**City of event:** Portland, United States of America  
**Date of event:** 16/08/2015  
**End date:** 20/08/2015  
**Organising entity:** American Fisheries Society      **Type of entity:** Associations and Groups  
Gema Hernan; Fiona Tomas; Maria Cristina Buia; Jorge Terrados.
- 13** **Title of the work:** Seagrass herbivory patterns are altered under ocean acidification  
**Name of the conference:** Annual Benthic Ecology Meeting  
**Type of participation:** Participatory - oral communication  
**City of event:** Quebec City, Canada  
**Date of event:** 04/03/2015  
**End date:** 07/03/2015  
**Organising entity:** Benthic Ecology Meeting Society      **Type of entity:** Associations and Groups  
Fiona Tomas; Gema Hernan; Maria Cristina Buia; Jorge Terrados.
- 14** **Title of the work:** Effects of temperature in seagrass seedlings and their trophic relations  
**Name of the conference:** Aquatic Science Meeting, Association for the sciences of Limnology and Oceanography  
**Type of participation:** Participatory - oral communication  
**City of event:** Granada, Spain  
**Date of event:** 22/02/2015  
**End date:** 27/02/2015  
**Organising entity:** Association for the sciences of Limnology and Oceanography      **Type of entity:** Associations and Groups  
Gema Hernan; Alberto Martinez; Jorge Terrados; Fiona Tomas.
- 15** **Title of the work:** Ocean acidification modifies within-plant herbivory patterns in the seagrass *Posidonia oceanica*  
**Name of the conference:** Aquatic Science Meeting, Association for the sciences of Limnology and Oceanography  
**Type of participation:** Participatory - oral communication  
**City of event:** Granada, Spain  
**Date of event:** 22/02/2015  
**End date:** 27/02/2017  
**Organising entity:** Association for the sciences of Limnology and Oceanography      **Type of entity:** Associations and Groups  
Fiona Tomas; Gema Hernan; Maria Cristina Buia; Jorge Terrados.
- 16** **Title of the work:** Eutrophication and acidification impacts on seagrass do not equally translate to its consumers  
**Name of the conference:** 37th Annual Meeting Pacific Estuarine Research Society  
**Type of participation:** Participatory - oral communication  
**City of event:** Newport, United States of America  
**Date of event:** 03/04/2014  
**End date:** 05/03/2014  
**Organising entity:** Pacific Estuarine Research Society      **Type of entity:** Associations and Groups



Fiona Tomas; Beroña Martinez-Crego; Gema Hernan; Rui Santos.

- 17** **Title of the work:** Contrasting effects of ocean acidification, eutrophication and herbivory on seagrass - herbivore interactions  
**Name of the conference:** Ocean Sciences Meeting  
**Type of participation:** Participatory - oral communication  
**Date of event:** 23/02/2014  
**End date:** 28/02/2014  
**Organising entity:** Association for the sciences of Limnology and Oceanography, American Aeophysical Union, The Oceanography Society  
**Type of entity:** Associations and Groups  
Fiona Tomas; Gema Hernan; Maria Cristina Buia; Jorge Terrados.
- 18** **Title of the work:** Persistent organic pollutants in Antarctic Krill (*Euphasia Superba*)  
**Name of the conference:** 22nd annual meeting of the Society of Environmental Toxicology and Chemistry  
**Type of participation:** 'Participatory - poster  
**City of event:** Berlin, Germany  
**Date of event:** 20/05/2012  
**End date:** 24/05/2012  
**Organising entity:** Society of Environmental Toxicology and Chemistry  
**Type of entity:** Associations and Groups  
Nadia Berrojalbiz; Cristobal Galban Malagon; Gema Hernan; M.J. Ojeda; Manuela Abalos; Esteban Abad; Jordi Dachs.
- 19** **Title of the work:** Chemical characterization of plant genetic resources of gentian (*Gentiana lutea* L.) in the counties of Laciana and Babia (Spain)  
**Name of the conference:** 28th International Horticultural Congress  
**Type of event:** Conference  
**Type of participation:** Participatory - others  
**Corresponding author:** Yes  
**City of event:** Lisbon, Portugal  
**Date of event:** 22/08/2010  
**End date:** 27/08/2010  
**Organising entity:** International Society for Horticultural Science  
**Type of entity:** Associations and Groups  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Gema Hernan; Federico Varela; Paloma Navarrete; Dolores Perez-MAo; Pablo López-Cepero; M Marcos; Alicia Lorenzana; Pedro Casquero; Ramon Calvo; Daniel Sanchez de Ron; Angeles Cases. "Chemical characterization of plant genetic resources of gentian (*Gentiana lutea* L.) in the counties of Laciana and Babia (Spain)". En: Proceedings of the XXVIII International Horticultural Congress on Science and Horticulture for People. Colloquia and overview.
- 20** **Title of the work:** Chemical characterization of *Rosmarinus officinalis* essential oil from Alcarria region (Spain) wild populations  
**Name of the conference:** 28th International Horticultural Congress  
**Corresponding author:** No  
**City of event:** Lisbon, Portugal  
**Date of event:** 22/08/2010  
**End date:** 27/08/2010  
**Organising entity:** International Society for Horticultural Science  
**Type of entity:** Associations and Groups

**With external admission assessment committee:** Yes

David Herraiz; Jaime Usano-Aleman; J Cuadrado; Maria Angeles Cases; Paloma Navarrete; Dolores Lopez-Mao; Lopez-Cepedo Pablo; Gema Hernan; Federico Varela. "Chemical characterization of Rosmarinus officinalis essential oil from Alcarria region (Spain) wild". En: Proceedings of the XXVIII International Horticultural Congress on Science and Horticulture for People. Colloquia and overview.

- 21 Title of the work:** Phenolic fraction composition (phenolic acids and flavonoids) of Salvia lavandulifolia wild populations from Alcarria region (Spain) essential oil from Alcarria region (Spain) wild populations

**Name of the conference:** 28th International Horticultural Congress

**Corresponding author:** No

**City of event:** Lisbon, Portugal

**Date of event:** 22/08/2010

**End date:** 27/08/2010

**Organising entity:** International Society for Horticultural Science

**Type of entity:** Associations and Groups

**With external admission assessment committee:** Yes

David Herraiz; Jaime Usano-Aleman; J Cuadrado; Maria Angeles Cases; Paloma Navarrete; Dolores Lopez-Mao; Lopez-Cepedo Pablo; Gema Hernan; Federico Varela. "Chemical characterization of Rosmarinus officinalis essential oil from Alcarria region (Spain) wild". En: Proceedings of the XXVIII International Horticultural Congress on Science and Horticulture for People. Colloquia and overview.

- 22 Title of the work:** El Centro de Recursos Fitogenéticos - INIA: Variedades tradicionales de plantas cultivadas recolectadas en Andalucía (1929-2009)

**Name of the conference:** V Congreso de Mejora genética de plantas

**Type of event:** Conference

**Type of participation:** Participatory - others

**Date of event:** 07/07/2010

**End date:** 09/07/2010

**Organising entity:** SOCIEDAD ESPAÑOLA DE CIENCIAS HORTICOLAS

**With external admission assessment committee:** Yes

**Type of contribution:** Scientific paper

Federico Varela; A. Peluzzo; F. Berrio; L. De la Rosa; A. Ruano; A. Meana; D. Gómez; R. M. Garcia; J.R. Larreina; Elena Díaz; Teresa Marcos; Gema Hernan; David Sanchez De Ron; Hector Pascual. En: Actas de Horticultura. 55, pp. 39 - 40.

- 23 Title of the work:** Recursos genéticos y caracterización química de plantas aromáticas y medicinales en las Islas Pitiusas

**Name of the conference:** V Congreso de Mejora genética de plantas

**Type of event:** Conference

**Type of participation:** Participatory - oral communication

**City of event:** Madrid, Spain

**Date of event:** 07/07/2010

**End date:** 09/07/2010

**Organising entity:** SOCIEDAD ESPAÑOLA DE CIENCIAS HORTICOLAS

**With external admission assessment committee:** Yes

**Type of contribution:** Scientific paper

Maria Angeles Cases; Paloma Navarrete; Dolores Perez-Mao; Gema Hernan; Pablo Lopez-Cepedo; David Sanchez; Federico Varela. En: Actas de Horticultura. 55, pp. 29 - 30.

- 24 Title of the work:** Bioprospecting: genetic resources of medicinal and aromatic plants in Spain

**Name of the conference:** 4th International Symposium Breeding Research on Medicinal and Aromatic Plants



**Type of event:** Conference

**Type of participation:** Participatory - oral communication

**City of event:** Ljubljana, Slovenia

**Date of event:** 17/06/2009

**End date:** 21/06/2009

**Organising entity:** International Society for Horticultural Science

**Type of entity:** Associations and Groups

**With external admission assessment committee:** Yes

**Type of contribution:** Scientific paper

Federico Varela; Gema Hernan; Paloma Navarrete; Begoña Perez; Dolores Perez-Mao; Pablo Lopez-Cepedo; J. Cuadrado; David Herraiz; Jaime Usano-Aleman; J.A. Sotomayor; M.J. Jordán; R. Cristobal; M. Fanlo; R. Melero; Eva Moré; P. Cabot; M.C. Asensio-Manzaneda; C. Asensio-Vegas; H. Martín; B. Herrero; M. Fernández; A. Peluzzo; M.E. González Benito; F. Perez; David Sanchez; Maria Angeles Cases. En: Acta Horticulturae.

## Works submitted to national or international seminars, workshops and/or courses

- 1** **Title of the work:** Seagrass responses to environmental changes: the herbivory perspective  
**Name of the event:** Invited seminar  
**Corresponding author:** Yes  
**City of event:** Bodega, United States of America  
**Date of event:** 03/06/2020  
**Organising entity:** Bodega Marine Lab-UC Davis  
**City organizing entity:** United States of America
- 2** **Title of the work:** Effects of environmental changes in seagrass herbivory  
**Name of the event:** Eco&Evo seminars  
**Corresponding author:** Yes  
**City of event:** Tallahassee, United States of America  
**Date of event:** 19/04/2019  
**Organising entity:** Florida State University  
**City organizing entity:** Tallahassee,  
Gema Hernan. **Type of entity:** University
- 3** **Title of the work:** Resource availability shapes latitudinal patterns of plant defense traits in a marine foundation species  
**Name of the event:** Hatfield Marine Science Center Research Seminar Series  
**Corresponding author:** Yes  
**City of event:** Newport, United States of America  
**Date of event:** 05/04/2018  
**Organising entity:** Oregon State University.  
Gema Hernan. **Type of entity:** University

## R&D management and participation in scientific committees

### Scientific, technical and/or assessment committees

- 1** **Committee title:** FSU Postdoctoral Advisory Board  
**Affiliation entity:** Florida State University **Type of entity:** University  
**City affiliation entity:** Tallahassee, United States of America  
**Start-End date:** 04/04/2019 - 31/07/2020
- 2** **Committee title:** FSU travel award Judge  
**Affiliation entity:** Florida State University  
**City affiliation entity:** United States of America  
**Start-End date:** 01/07/2019 - 30/07/2019

### Organization of R&D activities

- 1** **Title of the activity:** Plastic pollution in aquatic systems: the role of biogenic habitats in the dynamics and accumulation of plastics  
**Type of activity:** Session Chair  
**Convening entity:** Aquatic Science Meeting **Type of entity:** Associations and Groups  
**City convening entity:** United States of America  
**Start-End date:** 04/06/2023 - 09/06/2023
- 2** **Title of the activity:** Session Coorganizer-Carbon ecosystem services: The role of seagrasses in carbon cycling and climate change mitigation and adaptation  
**Type of activity:** Conference Session **Geographical area:** Non EU International  
**City of event:** Annapolis, United States of America  
**Convening entity:** World Seagrass Conference & International Seagrass Biology Workshop **Type of entity:** Associations and Groups  
**Type of participation:** Organiser  
**Start-End date:** 07/08/2022 - 12/08/2022 **Duration:** 6 days
- 3** **Title of the activity:** Florida State University Postdoctoral symposium  
**Type of activity:** Symposium **Geographical area:** Non EU International  
**Convening entity:** Florida State University **Type of entity:** University  
**City convening entity:** Tallahassee, United States of America  
**Type of participation:** Chairman  
**Start-End date:** 20/09/2019 - 20/09/2019 **Duration:** 1 day
- 4** **Title of the activity:** FSU postdoc Spring event  
**Type of activity:** Workshops  
**Convening entity:** Florida State University **Type of entity:** University  
**City convening entity:** Tallahassee, United States of America  
**Type of participation:** Chairman  
**Start-End date:** 10/05/2019 - 10/05/2019 **Duration:** 1 day



- 5** **Title of the activity:** FSU Career Development Workshop  
**Type of activity:** Workshop **Geographical area:** Non EU International  
**Convening entity:** Florida State University  
**City convening entity:** Tallahassee, United States of America  
**Type of participation:** Chairman  
**Start date:** 21/08/2020 **Duration:** 1 day

## Other achievements

### Stays in public or private R&D centres

- 1** **Entity:** Florida State University **Type of entity:** University  
**Faculty, institute or centre:** Department of Biological Science  
**City of entity:** Tallahassee, United States of America  
**Start-End date:** 15/10/2018 - 15/10/2020 **Duration:** 2 years  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Postdoctoral stage at the Department of Biological Sciences in the Rassweiler lab developing 3 research projects 1) Comparing the efficiency of different marine biodiversity monitoring methodologies and 2) Environmental drivers of functional diversity in Kelp forest (both using existing datasets from several monitoring programs in the Santa Barbara Channel Islands) and 3) Tropicalization of fish communities along the Gulf coast of Florida in the past 20 years using existing data sets from Florida Fisheries and wildlife Commission. I am also mentoring a PhD student developing her research work in seagrasses.
- 2** **Entity:** Oregon State University **Type of entity:** University  
**Faculty, institute or centre:** Department of Microbiology  
**City of entity:** Corvallis, United States of America  
**Primary (UNESCO code):** 240900 - Genetics; 241400 - Microbiology  
**Start-End date:** 10/06/2017 - 02/09/2017 **Duration:** 2 months - 22 days  
**Funding entity:** Obra Social La Caixa **Type of entity:** Foundation  
**Goals of the stay:** Guest  
**Provable tasks:** The aim of this project was to understand the drivers of herbivore feeding preference from the unexplored perspective of the herbivore GIT (Gastrointestinal tract) microbiome quantifying the role of the GIT microbiome on herbivory by: 1. Identify the differences (functional [i.e., gene level] and taxonomic [i.e., population level]) in GIT microbiome due to changes in chemical and structural traits of the food (seagrass and algae). 2. Quantify the influence of GIT microbiome changes on the process of herbivory (preference) and herbivore host fitness. I designed, planned and conducted all the experiment and laboratory analysis.  
**Acquired skills developed:** Sample purification, DNA extraction, DNA electrophoresis, PCR.
- 3** **Entity:** Oregon State University **Type of entity:** University Department  
**Faculty, institute or centre:** Department of Microbiology  
**Primary (UNESCO code):** 120901 - Analytical statistics  
**Start-End date:** 08/07/2016 - 07/08/2016 **Duration:** 1 month  
**Funding entity:** Universidad de las Islas Baleares **Type of entity:** University  
**Goals of the stay:** Doctorate  
**Provable tasks:** Learning Metanalysis design and how to perform metanalysis in R.



- 4** **Entity:** Universidad Nacional Autonoma de Mexico **Type of entity:** University Research Institute  
**Faculty, institute or centre:** Unidad Académica de Sistemas Arrecifales  
**City of entity:** Mexico  
**Primary (UNESCO code):** 230225 - Photosynthesis; 241713 - Plant ecology; 241719 - Plant physiology  
**Start-End date:** 02/02/2016 - 15/05/2016 **Duration:** 3 months - 13 days  
**Funding entity:** BANCO SANTANDER, S.A.  
**City funding entity:** Spain  
**Goals of the stay:** Doctorate  
**Provable tasks:** The main objectives of my visit were: 1) The description of the photosynthetic parameters, carbon and biomass balance Halodule wrightii meadow assessing transmission, reflectance and leaf absorptance and measuring photosynthesis by oxygen evolution and fluorescence. 2) Analysis of the response to temperature in the photosynthetic and respiratory processes in Halodule wrightii meadows. 3) Comparison between the direct measures of oxygen evolution (Curves P vs. E) vs. Rapid light Curves determined with the pulse amplitud modulated fluorescence (method widely used in the literature).  
**Acquired skills developed:** Assessment of calcification, transmission, reflectance and leaf absorptance in seagrasses and algae. Methodologies for measuring photosynthesis and damage in the photosynthetic system.
- 5** **Entity:** Oregon State University **Type of entity:** University Department  
**Faculty, institute or centre:** Department of Fisheries and Wildlife  
**City of entity:** United States of America  
**Primary (UNESCO code):** 120903 - Data analysis; 120905 - Design and analysis of experiment; 241700 - Plant Biology (Botany); 241713 - Plant ecology  
**Start-End date:** 27/05/2015 - 27/08/2015 **Duration:** 3 months  
**Funding entity:** Universidad de las Islas Baleares **Type of entity:** University  
**Goals of the stay:** Doctorate  
**Provable tasks:** Designing, leading and coordinating a network of scientist from different countries (West coasts of the USA, Mexico, Canada) on defense strategies of eelgrass against consumers. Conducting field experiments in intertidal systems.  
**Acquired skills developed:** Managemen of international projects, Experimental design.
- 6** **Entity:** Stazione Zoologica Anthon Dohrn **Type of entity:** Public Research Body  
**City of entity:** Ischia (Naples), Italy  
**Primary (UNESCO code):** 241700 - Plant Biology (Botany); 241713 - Plant ecology; 241715 - Plant growth  
**Secondary (UNESCO code):** 310500 - Fish and wildlife  
**Tertiary (UNESCO code):** 230331 - Water chemistry  
**Start-End date:** 29/06/2014 - 27/07/2014 **Duration:** 29 days  
**Funding entity:** European Union FP7 research **Type of entity:** Public Research Body  
 infrastructure program ASSEMBLE  
**Goals of the stay:** Doctorate  
**Provable tasks:** Assess the effects of increased CO<sub>2</sub> on herbivore – seagrass interactions by examining the influence of increased CO<sub>2</sub> on: 1) fish populations (abundance and size structure), 2) fish feeding behaviour (estimation of feeding patterns through underwater video cameras, tethering experiments and feeding preference experiments) and 3) seagrass vitality (i.e. shoot density, size of shoots, seagrass growth) and nutritional quality (e.g. carbon and nitrogen content, phenolic content).  
**Acquired skills developed:** Sampling of microbiological samples and epiphytic community of plant leaves. Study of trophic behaviour in fishes.
- 7** **Entity:** Universidade do Algarve  
**Faculty, institute or centre:** Centro de Ciencias do mar  
**Primary (UNESCO code):** 241700 - Plant Biology (Botany); 241713 - Plant ecology  
**Start-End date:** 19/03/2012 - 20/05/2012 **Duration:** 2 months  
**Type of entity:** Public Research Body





**Funding entity:** European cooperation on Science and Technology. EU framework programme

**Goals of the stay:** Guest

**Provable tasks:** Research assistant in the project "Effects of increased CO<sub>2</sub> and nutrients on seagrass herbivory". I helped in the set up and maintenance of the mesocosm experiment with seagrasses, collected field samples, performed feeding experiments with herbivores (sea urchins and isopods) and took down the mesocosm experiment. I also helped in the laboratory analysis of chemical components of the plants (carbohydrates, phenolic compounds, phosphorus).

## Obtained grants and scholarships

- 1 Name of the grant:** Postdoctoral fellowship (Postdoctoral PI)  
**Aims:** Post-doctoral  
**Awarding entity:** Universidad de las Islas Baleares **Type of entity:** University  
**Amount of the grant:** 66.000 €  
**Conferral date:** 15/02/2021 **Duration:** 2 years  
**End date:** 23/08/2023  
**Entity where activity was carried out:** Instituto Mediterráneo d Estudios Avanzados
- 2 Name of the grant:** Mobility of young researchers  
**Identify key words:** Molecular, cellular and genetic biology; Biological sciences  
**Aims:** Visiting Researcher  
**Awarding entity:** Obra Social Fundación la Caixa **Type of entity:** Foundation  
**Amount of the grant:** 3.000 €  
**Conferral date:** 10/06/2017 **Duration:** 2 months - 22 days  
**End date:** 02/09/2017  
**Entity where activity was carried out:** Oregon State University  
**Faculty, institute or centre:** Departmet of Microbiology
- 3 Name of the grant:** Predoctoral fellowship FPI  
**Aims:** Pre-doctoral  
**Awarding entity:** Govern de les Illes Balears **Type of entity:** Public institution  
**Conferral date:** 14/12/2012 **Duration:** 3 years - 11 months - 14 days  
**End date:** 30/11/2016  
**Entity where activity was carried out:** Institut Mediterrani d'Estudis Avançats
- 4 Name of the grant:** Grant for research visits  
**Aims:** Pre-doctoral  
**Awarding entity:** Universidad de las Islas Baleares **Type of entity:** University  
**Conferral date:** 08/07/2016 **Duration:** 1 month  
**End date:** 07/08/2016  
**Entity where activity was carried out:** Oregon State University
- 5 Name of the grant:** Training and Travel grant  
**Aims:** Pre-doctoral  
**Awarding entity:** British Ecological Society **Type of entity:** Associations and Groups  
**Conferral date:** 14/06/2016 **Duration:** 6 days  
**End date:** 20/06/2016



- 6** **Name of the grant:** Becas Iberoamérica 2015  
**Aims:** Pre-doctoral  
**Awarding entity:** Fundacion Banco Santander **Type of entity:** Foundation  
**Amount of the grant:** 4.000 €  
**Conferral date:** 01/02/2016 **Duration:** 3 months - 3 days  
**End date:** 15/05/2016  
**Entity where activity was carried out:** Universidad Nacional Autónoma de México  
**Faculty, institute or centre:** Unidad Académica de Sistemas Arrecifales
- 7** **Name of the grant:** Advance course support 2015  
**City awarding entity:** Sweden  
**Aims:** Pre-doctoral  
**Awarding entity:** The royal Swedish academy of science **Type of entity:** State agency  
**Conferral date:** 13/12/2015 **Duration:** 6 days  
**End date:** 19/12/2015  
**Entity where activity was carried out:** University of Gothenburg  
**Faculty, institute or centre:** Centre for Marine Evolutionary Biology
- 8** **Name of the grant:** Grant for research visits 2015  
**Aims:** Pre-doctoral  
**Awarding entity:** Universidad de las Islas Baleares **Type of entity:** University  
**Conferral date:** 27/05/2015 **Duration:** 3 months  
**End date:** 27/08/2015  
**Entity where activity was carried out:** Oregon State University  
**Faculty, institute or centre:** Department of Fisheries and Wildlife
- 9** **Name of the grant:** COST Training school support  
**Aims:** Course attendance  
**Awarding entity:** European cooperation on Science and Technology. EU framework programme **Type of entity:** Public Research Body  
**Conferral date:** 06/05/2013 **Duration:** 5 days  
**End date:** 11/05/2013  
**Entity where activity was carried out:** University of Palermo
- 10** **Name of the grant:** Short term scientific mission  
**Aims:** undergraduate research experience  
**Awarding entity:** COST-EU framework programme  
**Amount of the grant:** 2.500 €  
**Conferral date:** 19/03/2012 **Duration:** 3 months  
**End date:** 20/05/2012  
**Entity where activity was carried out:** University of Algarve  
**Faculty, institute or centre:** Center for marine Science



## Summary of other achievements

- 1** **Description of the achievement:** Judge for art residency program  
**Accrediting entity:** MARLANDS project **Type of entity:** Associations and Groups  
**City accrediting entity:** Balearic Islands, Spain  
**Conferral date:** 27/07/2022
- 2** **Description of the achievement:** President of Florida State Postdoctoral Association  
**Accrediting entity:** Florida State University **Type of entity:** University  
**City accrediting entity:** Tallahassee, United States of America  
**Conferral date:** 01/12/2019
- 3** **Description of the achievement:** ESA Travel Award  
**Accrediting entity:** Ecological Society of America **Type of entity:** Associations and Groups  
**City accrediting entity:** United States of America  
**Conferral date:** 15/08/2019
- 4** **Description of the achievement:** Chair and Organizer of Postdoctoral Spring Event (trainings and workshops)  
**Accrediting entity:** Florida State University  
**City accrediting entity:** United States of America  
**Conferral date:** 10/05/2019
- 5** **Description of the achievement:** Member of the Postdoc Advisory Board at Florida State University  
**Accrediting entity:** Florida State University **Type of entity:** University  
**City accrediting entity:** United States of America  
**Conferral date:** 01/05/2019
- 6** **Description of the achievement:** Vice President of Florida State Postdoctoral Association  
**Accrediting entity:** Florida State University **Type of entity:** University  
**City accrediting entity:** Tallahassee, United States of America  
**Conferral date:** 01/05/2019
- 7** **Description of the achievement:** FSU-OPDA travel Award to the National Postdoc Association meeting  
**Accrediting entity:** Florida State University **Type of entity:** University  
**City accrediting entity:** Tallahassee, United States of America  
**Conferral date:** 12/04/2019
- 8** **Description of the achievement:** Outreach: Scientist member of Skype a Scientist program. Bimonthly skypes with classrooms from around the world, explaining what is like to be a scientist and encouraging scientific curiosity. I adapt my presentation to the teaching program of the class and their interests  
**Accrediting entity:** Skype a Scientist  
**City accrediting entity:** United States of America  
**Conferral date:** 01/11/2018
- 9** **Description of the achievement:** Outreach: Events and activities about seagrass ecosystem services within the Women in Science events  
**Accrediting entity:** Caixa Forum **Type of entity:** Foundation  
**Conferral date:** 11/02/2017



- 10** **Description of the achievement:** Computing for data Analysis (R programming)  
**Accrediting entity:** Johns Hopkins University      **Type of entity:** University  
**Conferral date:** 14/02/2014
- 11** **Description of the achievement:** Course in Science communication: Opening science  
**Accrediting entity:** Obra Social Fundación la Caixa      **Type of entity:** Foundation  
**Conferral date:** 2013
- 12** **Description of the achievement:** Coastal photogrametry technician, GPS and GIS  
**Accrediting entity:** Universidad Politécnica de Madrid      **Type of entity:** University  
**Conferral date:** 2010