



GEMA HERNAN MARTINEZ

Generated from: Editor CVN de FECYT

Date of document: 20/03/2024

v 1.4.3

d4ec07794fd34aeb2249557d9e9fa752

This electronic file (PDF) has embedded CVN technology (CVN-XML). The CVN technology of this file allows you to export and import curricular data from and to any compatible data base. List of adapted databases available at: <http://cvn.fecyt.es/>

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. I have received two postdoctoral fellowships (2yrs and 3yrs) and since 2021 I have been working in the Mediterranean Institute for Advanced Studies working in different projects related to anthropogenic impacts in macrophyte systems, invasive species and restoration.

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.

SCIENTIFIC AND TECHNICAL CONTRIBUTIONS

- 20 published articles (+4 Under review)
- 355 citations (Google Scholar), 263 (Scopus)
- 31 communications at international conferences (9 as first author)
- Participation in 8 national and 8 international projects as team member
- Reviewer for Q1 journals (Nature, Global Change Biology, Journal of Ecology...)
- 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. Science fairs, open lab events, science fairs and events at neighborhood cultural centers.

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

INDEPENDENCE AND LEADERSHIP

- 7 independent research proposals awarded in competitive calls (259.9 k€)

Postdoctoral Fellowship 2023-2026 (Spain)

Susan L. Williams Memorial fellowship 2023 (USA)

Postdoctoral Fellowship 2021-2023 (Spain)

Mobility of young researchers 2017 (US)

Becas Iberoamérica 2015 (Mexico)

UIB Research grant 2015 (US)

Predocutorial fellowship FPI 2012-2016 (Spain)

Short term scientific mission 2012 (Portugal)

- Team member in 8 national projects and 8 international projects

- **50% of my papers are with authors outside my PhD supervisors**

- Supervisor of 1 PhD student (FSU Department of Geography) and 5 Master students (University of Barcelona/University of the Balearic Islands) and will co-supervise an PhD student.

Other merits

- Instructor in a course about metanalysis in ocean acidification (OA International Coordination Center, IAEA), a summer school (Universidad de Murcia) and teaching assistant at the MSc in Marine Ecology (University of the Balearic Islands)

- Session co-organizer (International Seagrass Biology Workshop ISBW14 2022, ASLO Aquatic Science meeting 2023, ISBW15)

- Scientific committee of the Mallorca Science School

- President (2020) and Vice President (2019) of FSU Postdoctoral Association



- 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)
- Participation in scientific reviewing committees:
FSU postdoctoral awards
Regional Science and Engineering fair (Florida)
MARLANDS art residency program (an art and science program in Majorca)
Hiring committee for the Program Young and skilled (Balearic employment service) at the University of the Balearic Islands.

INTERNATIONALIZATION

- Postdoctoral Associate 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 +30 institutions in US, Canada, Mexico, Chile, Portugal and Italy.
 - Member of a European consortium (The Seagrass Consortium) on seagrass restoration
 - Member of the Mediterranean Posidonia Network
- Instructor in course on ocean acidification (OA) organized by the OA International Coordination Centre of the **International Atomic Energy Agency**
- 3 invited seminars and 3 guest lectures at US universities



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

- 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 life 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 restoration.
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.
- 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 CO₂ 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 medicianl 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 lile 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)

**C****V****n**

CURRÍCULUM VITAE NORMALIZADO

d4ec07794fd34aeb2249557d9e9fa752

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

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- 1** **Title of course/seminar:** Program for Instructional excellence Workshops series
Goals of the course/seminar: Discuss strategies and techniques that promote excellence in teaching and learning
Organising entity: Florida State University **Type of entity:** University
Duration in hours: 8 hours
Start-End date: 10/01/2019 - 10/10/2020
- 2** **Title of course/seminar:** Bridging cultures: Global Partner Certificate
Goals of the course/seminar: Assist international students and scholars, develop intercultural communication competence
Organising entity: Florida State University **Type of entity:** University
Duration in hours: 15 hours
Start-End date: 01/02/2020 - 25/08/2020

**3 Title of course/seminar:** Basics of teaching

Goals of the course/seminar: Developing a course syllabus; Knowing your teaching environment; Using Blackboard for introduction; Planning teaching-learning activities; Student assessment; and Course evaluation and revision

Organising entity: Florida State University

Duration in hours: 42 hours

Start-End date: 01/10/2019 - 01/04/2020

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 Cuat

Date of reading: 15/09/2023

2 Project title: Meta-analysis on the effect of acidification on defense strategies against herbivores in marine phanerogams

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
City of entity: Tallahassee, United States of America
Student: Jennifer McHenry
Date of reading: 30/06/2022

Type of entity: University

- 6 Project title:** Efectes de l'herbivorisme en fanerògames marines: una revisió bibliogràfica
Type of project: Master Thesis
Entity: Universitat de Barcelona
Student: Andrea Gros Gomez
Date of reading: 06/11/2020

Type of entity: University

Teaching experience in courses and seminars for university teacher training

- 1 Type of event:** Guest Lecture
Name of the event: Project Writing course (BSc. Biology)
Organising entity: University of the Balearic Islands
Hours of teaching: 2
Teaching date: 23/10/2023
- 2 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 Coordination Centre of the International Atomic Energy Agency
Type of entity: Public Research Body
Hours of teaching: 20
Teaching date: 13/02/2023
- 3 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
- 4 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
- 5 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
- 6 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

- 7** **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
- 8** **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
- 9** **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:** Integration of new technologies in the characterization of the conservation status of underwater forests in the Balearic Islands and their contribution to ecosystem services (ConBoSer)
Entity where project took place: Institut Mediterrani **Type of entity:** Public Research Body d'Estudis Avançats
Name principal investigator (PI, Co-PI....): Yolanda Gonzalez Cid; Fiona Tomas Nash
Nº of researchers: 2
Start-End date: 01/05/2023 - 31/07/2025
Total amount: 114.777,75 €



- 3** **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 €
- 4** **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 €
- 5** **Name of the project:** Novel methodologies for seagrass restoration with seedlings (Cymo-3D)
Entity where project took place: Institut Mediterrani **Type of entity:** Public Research Body d'Estudis Avançats
Name principal investigator (PI, Co-PI....): Gema Hernan
Nº of researchers: 1
Funding entity or bodies:
Women Divers Hall of Fame **Type of entity:** Associations and Groups
City funding entity: United States of America
Name of the programme: Susan L. Williams Memorial Fellowship in Seagrass Rehabilitation
Start-End date: 10/02/2023 - 31/08/2023
Total amount: 2.500 €
- 6** **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
- 7** **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
- 8** **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 €

- 9** **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.

- 10** **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 d'Estudis Avançats
- Type of entity:** Public Research Body
- 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 €

- 11** **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
- Nº of researchers:** 1
- Type of participation:** Principal investigator
- Start-End date:** 01/06/2017 - 01/06/2017
- Duration:** 3 months
- Total amount:** 2.500 €

- 12** **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
- Nº 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 €**13 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**Nº 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**14 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**Nº 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 €**15 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**16 Name of the project:** Seagrass restoration through seedlings: effects of light, nutrients and herbivory.**Entity where project took place:** Institut Mediterrani d'Estudis Avançats**Type of entity:** Public Research Body**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 €

- 17** **Name of the project:** Seagrass-herbivore interactions in an acidified and eutrophic ocean.
Entity where project took place: Centro de Estudios Avanzados de Blanes
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 €
- 18** **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 €
- 19** **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 ASSEMBLE (Association of European Marine Biological Laboratories) **Type of entity:** Public Research Body
Type of participation: Team member
Start-End date: 02/2012 - 08/2012
Total amount: 5.000 €
- 20** **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 €



- 21 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 €
- 22 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: 10
Date of application: 11/01/2024
Fuente de Indice 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
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Total no. authors: 20
Category: Ecology
Impact source: ISI
Journal in the top 25%: Yes
Impact index in year of publication: 6.446
No. of journals in the cat.: 169
Position of publication: 11
Relevant publication: Yes



- 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. Available on-line at: <<https://aslopubs.onlinelibrary.wiley.com/doi/10.1002/lno.12343>>.
- 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 MáñezCrespo; 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
- Format:** Journal
Corresponding author: Yes

**Impact source:** ISI**Impact index in year of publication:** 4.072**Position of publication:** 44**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**Total no. authors:** 6**Impact source:** ISI**Impact index in year of publication:** 3.101**Position of publication:** 70**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**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; Rocío 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-CO₂ world: from physiology to herbivory. *Scientific reports*. 6, Nature, 01/12/2016.
Type of production: Scientific paper
Position of signature: 1
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 7**Impact source:** InCites**Impact index in year of publication:** 4.259**Position of publication:** 10**Source of citations:** CrossRef**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**Total no. authors:** 6**Impact source:** InCites**Impact index in year of publication:** 5.330**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:** 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

Format: Book

Corresponding author: No

- 21** Gema Hernan; Esther Rodriguez; Fiona Tomas. Identifying patterns of microplastic accumulation in coastal vegetated habitats: a systematic review and meta-analysis. Science of the Total Environment. 30/05/2024.

Type of production: Review

Format: Journal

Corresponding author: Yes

Works submitted to national or international conferences

- 1** **Title of the work:** Characterizing the retention capacity of mMicroplastics in a seagrass meadow as a function of hydrodynamics and shoot density
Name of the conference: ASLO Aquatic Sciences Meeting 2023
Corresponding author: No
City of event: palma de Mallorca, Balearic Islands, Spain
Date of event: 04/06/2023
End date: 09/06/2023
Organising entity: Association for the sciences of limnology and oceanography
Type of entity: Associations and Groups
City organizing entity: United States of America
Julia Mañez; Maria Maza; Brábara Ondiviela; Inés Mazarrasa; Gema Hernán; Rocio Jimenez; Luis Egea; Fiona Tomas.
- 2** **Title of the work:** Influence of microbiomes on seed germination and development in the seagrass Cymodocea nodosa
Name of the conference: ASLO Aquatic Sciences Meeting 2023
Corresponding author: No
City of event: Palma de Mallorca, Balearic Islands, Spain
Date of event: 04/06/2023
End date: 09/06/2023
Organising entity: Association for the sciences of limnology and oceanography
Type of entity: Associations and Groups
City organizing entity: United States of America
Xesca Reynes; Ryan Mueller; Gema Hernan; Fiona Tomas.
- 3** **Title of the work:** The role of vegetated coastal systems in the accumulation of microplastics
Name of the conference: ASLO Aquatic Sciences Meeting 2023
Corresponding author: Yes
City of event: Palma de Mallorca, Balearic Islands, Spain
Date of event: 04/06/2023
End date: 09/06/2023
Organising entity: Association for the sciences of limnology and oceanography
City organizing entity: United States of America
Gema Hernán; Esther Rodriguez; Fiona Tomas.
- 4** **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.

5 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.

6 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.

7 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 **Type of entity:** Associations and Groups

Andrew Rassweiler; A.K. Dubel; Gema Hernan.

8 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 **Type of entity:** Associations and Groups

City organizing entity: United States of America

Gema HERNAN; A.K. Dubel; Andrew Rasweiler.



- 9** **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.
- 10** **Title of the work:** Evidence of biotic resistance in a temperatre 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.
- 11** **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.
- 12** **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.
- 13** **Title of the work:** Seagrass (*Posidonia oceanica*) seedlings in a high CO2 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.



- 14** **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.
- 15** **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.
- 16** **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.
- 17** **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.
- 18** **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.



- 19** **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.
- 20** **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.
- 21** **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.
- 22** **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.

- 23** **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.
- 24** **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.
- 25** **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.
- 26** **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.

- 27** **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-Alemany; 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
Type of entity: University
City organizing entity: Tallahassee, Gema Hernan.
- 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.
Type of entity: University
 Gema Hernan.

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:** Mallorca Science School: Interdisciplinary Science for Marine and Coastal Conservation in a Changing World
Type of activity: PhD and Postdoctoral Science school **Geographical area:** European Union
Convening entity: Institut Mediterrani d'Estudis Avançats **Type of entity:** Public Research Body
City convening entity: Balearic Islands, Spain
Start-End date: 20/10/2024 - 26/10/2024 **Duration:** 7 days
- 2** **Title of the activity:** Ocean acidification research in seagrass ecosystems: From impacts to solutions
Type of activity: Session **Geographical area:** European Union
Convening entity: 2024 World Seagrass Conference & 15th International Seagrass Biology Workshop **Type of entity:** Associations and Groups
City convening entity: Naples, Italy
Start-End date: 17/06/2024 - 21/07/2024 **Duration:** 5 days
- 3** **Title of the activity:** Session: 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
- 4** **Title of the activity:** Session-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



- 5** **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
- 6** **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
- 7** **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 infrastructure program ASSEMBLE **Type of entity:** Public Research Body
Goals of the stay: Doctorate



Provable tasks: Assess the effects of increased CO₂ on herbivore – seagrass interactions by examining the influence of increased CO₂ 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

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

Type of entity: Public Research Body

Goals of the stay: Guest

Provable tasks: Research assistant in the project "Effects of increased CO₂ 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: Govern de les Illes Balears

Type of entity: Public

Conferral date: 01/12/2023

Duration: 3 years

End date: 30/11/2026

Entity where activity was carried out: Institut Mediterrani d'Estudis Avançats

2 Name of the grant: Susan L. Williams Memorial Fellowship in Seagrass Rehabilitation

Aims: Post-doctoral

Awarding entity: Women Divers Hall of Fame

Conferral date: 15/03/2022

End date: 30/08/2024

Entity where activity was carried out: Institut Mediterrani d'Estudis Avançats

3 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

4 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

5 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

6 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

7 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

8 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

9 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

10 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



- 11 Name of the grant:** COST Training school support
Aims: Course attendance
Awarding entity: European cooperation on Science and Technology. EU framework programme
Conferral date: 06/05/2013
End date: 11/05/2013
Entity where activity was carried out: University of Palermo
Type of entity: Public Research Body
Duration: 5 days
- 12 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
End date: 20/05/2012
Entity where activity was carried out: University of Algarve
Faculty, institute or centre: Center for marine Science
Duration: 3 months

Co-operation networks

Name of the network: The Seagrass Consortium
Participating entity/entities: CGG: Global Technology and HPC leader; FUNDACIÓN INSTITUTO DE HIDRÁULICA AMBIENTAL DE CANTABRIA; University of Groningen; Office française de la biodiversité; GIPREB-Syndicat mixte; Project Seagrass; Sea Rangers
Type of entity: ; ; University; Public Research Body; Associations and Groups; Associations and Groups; Associations and Groups
Start date: 20/07/2022

Summary of other achievements

- 1 Description of the achievement:** Judge for art residency program
Accrediting entity: MARLANDS project
City accrediting entity: Balearic Islands, Spain
Conferral date: 27/07/2022
Type of entity: Associations and Groups
- 2 Description of the achievement:** President of Florida State Postdoctoral Association
Accrediting entity: Florida State University
City accrediting entity: Tallahassee, United States of America
Conferral date: 01/12/2019
Type of entity: University
- 3 Description of the achievement:** ESA Travel Award
Accrediting entity: Ecological Society of America
City accrediting entity: United States of America
Conferral date: 15/08/2019
Type of entity: Associations and Groups
- 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 photogrammetry technician, GPS and GIS
Accrediting entity: Universidad Politécnica de Madrid **Type of entity:** University
Conferral date: 2010