



Marina Sanz-Martín

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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.

Dr. Marina Sanz-Martín is an **ecologist** and **oceanographer** with independent thinking and leadership qualities, in addition to a broad cross-disciplinary research profile. Dr. Marina Sanz-Martin ensures a balanced combination of scientific autonomy with a fruitful collaboration network with international experts of other fields such as oceanographers, chemicals, statisticians, or other profiled ecologists, and an active development of leadership capacities. In consequence, Sanz-Martín shows a **high quality**, diverse and **complete CV** including a good number of publications in high-quality journals and high citations of some of her publications, PI responsibilities in an international project, internationalization of the scientific work including attending conferences and organizing a Theme Session in a conference, project managing responsibilities and transferring the scientific knowledge to a broad audience.

Dr. Marina Sanz-Martin is an expert in **climate change ecology and oceanography**, a PI of the CLISSARTES project, funded by AXA RF and endorsed as a Decade Action by UNESCO-IOC and was granted a senior competitive postdoctoral fellowship at IEO-CSIC (Vicenç Mut, Balearic Islands Government). She was also awarded a Ph.D. Excellence Grant by La Caixa. She is actively involved in 12 international projects and she writes new project proposals. Her **publications** span eleven papers (six as primary or second author, four as co-author), one free available dataset, and three non-academic publications to outreach her work. Her papers are indexed in Q1 international scientific journals with IFs from 3 to 17. Her work reached 625 citations and an h-index of 7 according to Scopus.

She combines her scientific work with **outreach** through scientific monologues and social networks. Particularly, she collaborates in science dissemination programs such as FameLab 'Algo pasa en el Ártico', Scenio TV in "El cambio climático son los padres", 'Ellas hacen ciencia' at the Universidad del País Vasco (UPV/EHU), Thesis Competition in 3 minutes, Festival Mar de Mares in A Coruña, Festival No Plastic, and the RTVE program El Escarabajo Verde "Sopa de plástico" aiming to fill the gap between science and society. She is member of "Plataforma 11F - Mujeres científicas de Baleares" and contributes with opinion articles in Fundación Aquae and El País.

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.

Marina Sanz-Martín is the **PI of the CLISSARTES** project and her publications span eleven papers (six as primary or second author, four as co-author), one free available dataset, and three non-academic publications to outreach her work. Her papers are indexed in Q1 international scientific journals with impact factors from 3 to 17. Her work reached 625 citations and an h-index of 7 according to Scopus.

She conducts her research using different complementary approaches such as statistical modeling, handling large datasets of environmental and biological data, field monitoring, and experimental analysis. Her research encompasses the assessment of climate-driven changes and their effects on marine ecology in two regions, the Mediterranean Sea and the Arctic Ocean. In the Mediterranean, she has evaluated the response of demersal species to climate velocity (Sanz-Martín et al., submitted) the climate vulnerability of demersal fisheries' resources (Tomas-Ferrer et al., 2020), and the distribution of microplastics in surface waters (Cózar, Sanz-Martín et al., 2015) and ingested by marine organisms (Alomar, Sanz-Martín et al., 2021; Alomar et al., 2022). In the Arctic, she has researched the CO₂ limitation during the development of plankton blooms in response to increased CO₂ and temperature levels (Sanz-Martín et al., 2018; Holding, Sanz-Martín et al., 2015) in addition to the poleward migration of coastal, subarctic macrophytes (Sanz-Martín et al., 2019; Krause et al., 2016). In this region, she also evaluated the C:O ratios in planktonic primary production (Sanz-Martín et al., 2019) and respiration rates (Mesa et al., 2017). On a global scale, she evaluated the perception of increased jellyfish bloom trends (Sanz-Martín et al., 2016), which originally was her master's thesis.

Her **recent research** focuses on the use of relatively new metrics of climate change such as climate velocity as an important driver of global biodiversity reorganization that predicts observed species distribution shifts (Sanz-Martín et al., in review). In the framework of her CLISSARTES project, she evaluates the exposure to climate risk of the Spanish fisheries and evaluates the climate-smartness of the Western Mediterranean network of AMPs. The **line of research** that Sanz-Martín is currently developing tackles the analysis of environmental data from several satellite-based sources and computing climate velocity to predict ecological responses based on long-term monitoring of marine species from different databases



Marina Sanz-Martín

Surname(s): **Sanz-Martín**
 Name: **Marina**
 ORCID: **0000-0002-9777-5894**
 ScopusID: **56585950100**
 ResearcherID: **4437508**
 Loop: **508897**
 Contact aut. region/reg.: **Balearic Islands**
 Personal web page: **<https://www.researchgate.net/profile/Marina-Sanz-Martin>**

Current professional situation

Employing entity: Spanish Institute of Oceanography
Type of entity: Public Research Body
Department: Centro Oceanográfico de Baleares
Professional category: Vicenç Mut Postdoctoral Research Fellow & PI of CLISSARTES project
City employing entity: Spain

Start date: 01/07/2022

Type of contract: Temporary

Dedication regime: Full time

Performed tasks: I am leading the project CLISSARTES "Climate-smart strategies to develop resilience in artisanal fisheries of Mediterranean Marine Protected areas", managing economical resources and creating and developing my own research line. I am also compiling and analyzing data, interpreting results, writing papers, writing new project proposals, collaborating with the development of our research department, contacting policy makers and NGOs and teamworking.

Identify key words: Community fisheries; Ecology; Anthropogenic impact on ecosystems; Climate change

Field of management activity: Public Research Body

Previous positions and activities

	Employing entity	Professional category	Start date
1	Spanish Institute of Oceanography	Postdoctoral Researcher - DOMINO project	01/04/2022
2	Spanish Institute of Oceanography	Postdoctoral Researcher - VADAPES project	01/03/2021
3	Spanish Institute of Oceanography	Postdoctoral Researcher - ACUIPLASTIC project	01/11/2019
4	Spanish Institute of Oceanography	Postdoctoral Freelance - CLISFISH project	03/06/2019
5	Mediterranean Institute for Advanced Studies & University of Barcelona	Predocctoral Research Fellow	01/11/2013
6	Centre d'Iniciatives i Recursos Escolars	English teacher	01/10/2012
7	Palma Aquarium S. A.	Aquarist diver	30/01/2012



- 1** **Employing entity:** Spanish Institute of Oceanography
Professional category: Postdoctoral Researcher - DOMINO project
Start-End date: 01/04/2022 - 30/06/2022 **Duration:** 3 months
Performed tasks: DOMINO project: Desgranando el comportamiento de los cerqueros tropicales para refinar la estimación del esfuerzo desplegado por una de las flotas atuneras más importantes del planeta. Handling and statistical treatment of large datasets of tropical tuna fisheries and satellite environmental data to compute tuna responses to the velocity of climate change in the Atlantic Ocean and the Indian Ocean using R and QGIS programs.
- 2** **Employing entity:** Spanish Institute of Oceanography
Professional category: Postdoctoral Researcher - VADAPES project
Start-End date: 01/03/2021 - 28/02/2022 **Duration:** 1 year
Performed tasks: VADAPES project: Vulnerability and development of aptation strategies to climate change in fishing resources and associated marine ecosystems Acquisition, handling and statistical treatment of large datasets involving satellite environmental data (e.g. sea surface temperature and chlorophyll a concentration) in order to compute the velocity of climate change and fisheries data (e.g. catch and landings) using open-source programs such as R and QGIS; and a meta-analysis on diet feeding information of demersal fishes through an extensive bibliographical review.
- 3** **Employing entity:** Spanish Institute of Oceanography
Professional category: Postdoctoral Researcher - ACUIPLASTIC project
Start-End date: 01/11/2019 - 28/02/2021 **Duration:** 1 year - 4 months
Type of contract: Temporary employment contract
Performed tasks: Extraction and analysis of meso-, microplastics and microfibers from different biotic and abiotic samples (stomachs of fishes, bivalves, sediments, hyperbentos, sea surface etc) under the stereomicroscope. Spectroscopy analysis (FTIR and RAMAN) at the UIB Research Services. Statistical data analysis and writing a scientific paper on microplastic pollution in aquaculture fishes and mussels. IP: Dr. Salud Deudero
Field of management activity: Public Research Body
- 4** **Employing entity:** Spanish Institute of Oceanography
Professional category: Postdoctoral Freelance - CLISFISH project
Start-End date: 03/06/2019 - 13/09/2019 **Duration:** 3 months - 13 days
Type of contract: Freelance
Performed tasks: Research on potential vulnerability of demersal fisheries to Western Mediterranean warming. Development of projections for the future of demersal fisheries for the XXI century. Co-workers: Dr. Biel Jordà, Dr. Enric Massutí and Dr. Pilar Tugores from Balearic Center of Oceanography (COB-IEO)
Field of management activity: Public Research Body
- 5** **Employing entity:** Mediterranean Institute for Advanced Studies & University of Barcelona
Professional category: Predoctoral Research Fellow
Start-End date: 01/11/2013 - 30/10/2017 **Duration:** 4 years
- 6** **Employing entity:** Centre d'Iniciatives i Recursos Escolars
Professional category: English teacher
Start-End date: 01/10/2012 - 25/04/2013 **Duration:** 6 months - 25 days
- 7** **Employing entity:** Palma Aquarium S. A. **Type of entity:** Business
Professional category: Aquarist diver
Start-End date: 30/01/2012 - 19/08/2012 **Duration:** 6 months - 19 days



Education

University education

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

- 1** **Name of qualification:** Mindful Productivity for Scientists
Degree awarding entity: I Focus and Write. Ana Pineda. **Type of entity:** Business
Date of qualification: 30/12/2022
- 2** **Name of qualification:** Técnicas de Machine Learning basadas en árboles y su aplicación en Ciencias Naturales con R (40h, curso)
Degree awarding entity: Museo Nacional de Ciencias Naturales, Madrid, CSIC **Type of entity:** Public Research Body
Date of qualification: 30/10/2022
- 3** **University degree:** Course 35h
Name of qualification: Mapas y análisis espacial (SIG) con R
Degree awarding entity: Transmitting Science
Date of qualification: 28/05/2021
Average mark: Excellent
Date of homologation: 28/05/2021
- 4** **University degree:** Course 35h
Name of qualification: Curso de Diseño de experimentos y modelos mixtos en R
Degree awarding entity: Universitat de Barcelona **Type of entity:** University
Date of qualification: 28/09/2016
- 5** **University degree:** Course 10 ECTS
Name of qualification: Chemical oceanography in the Arctic Ocean - Svalvard (AGF-852)
Degree awarding entity: Arctic University of Norway (UiT)
Date of qualification: 13/04/2014
- 6** **University degree:** Course 3 ECTS
Name of qualification: Marine Ecological Research Course in Spitsbergen and the Barents Sea (BIO-8510)
Degree awarding entity: Arctic University of Norway (UiT)
Date of qualification: 01/02/2014
- 7** **University degree:** Higher degree
Name of qualification: Master in Global Change sciences
Degree awarding entity: Universidad Internacional Menéndez Pelayo **Type of entity:** University
Date of qualification: 12/09/2012
Average mark: Good

**8 University degree:** Higher degree**Name of qualification:** Licenciado en Ciencias del Mar Orientación Recursos Vivos**Degree awarding entity:** Universidad Católica de Valencia San Vicente Mártir **Type of entity:** University**Date of qualification:** 18/07/2011**Average mark:** Good**Doctorates****Doctorate programme:** Programa Oficial de Doctorado en Ciencias del Mar**Degree awarding entity:** Universitat de Barcelona **Type of entity:** University**Date of degree:** 09/03/2018**European doctorate:** Yes**Date of certificate:** 22/03/2018**Thesis title:** Effects of CO2 and long day length on primary productivity in the Arctic Ocean: a perspective on climate change**Thesis director:** Carlos M. Duarte Quesada**Thesis co-director:** Wassmann P F**Obtained qualification:** Excelente**Language skills**

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	A2	A2	A2	A2	A2
German	A2	A2	A2	A2	A2
English	B2	B2	B2	B2	B2
Catalan	C1	C1	C1	C1	C1
Spanish	C2	C2	C2	C2	C2

Teaching experience**General teaching experience**

- Name of the course:** Geofísica y Geología Marina
University degree: Bachelor Seminar Marine Science "Oceanography in the Arctic Ocean part I"
Start date: 28/01/2019 **End date:** 31/01/2019
Entity: Universidad Católica de Valencia San Vicente Mártir **Type of entity:** University
Faculty, institute or centre: Ciencias del Mar
- Name of the course:** Geofísica y Geología Marina
University degree: Bachelor Seminar Marine Science "Oceanography in the Arctic Ocean part II"
Start date: 28/01/2019 **End date:** 31/01/2019
Entity: Universidad Católica de Valencia San Vicente Mártir **Type of entity:** University
Faculty, institute or centre: Ciencias del Mar



- 3 Name of the course:** Cambio Global
University degree: Master Seminar "Impacts of Global Change in Polar Ecosystems"
Start date: 17/06/2014 **End date:** 22/06/2014
Entity: Universidad Internacional Menéndez Pelayo **Type of entity:** University

Student tutorials

Name of the programme: Teacher training
Entity: Instituto Español de Oceanografía and
City of entity: Palma, Spain
Number of recognized hours/ECTS credits: 240 **Frequency of the activity:** 240
Number of tutored students: 1

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:** TUNAWAVE. The effect of marine heat waves and suboptimal feeding on vital rates and recruitment success of Atlantic bluefin tuna
Entity where project took place: Centro Oceanográfico de Baleares **Type of entity:** Public Research Body
Name principal investigator (PI, Co-PI....): Reglero
Nº of researchers: 17
Funding entity or bodies: MINISTERIO DE CIENCIA E INNOVACIÓN. PROYECTOS DE GENERACIÓN DE CONOCIMIENTO 2022
Start-End date: 01/09/2023 - 01/09/2026
Total amount: 136.500 €
Applicant's contribution: Participant
- 2 Name of the project:** BioTrans. Biodiversity monitoring and risks assessment of Balearic Small Scale Fisheries to support socio-ecological transformation
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Instituto Oceanográfico de Baleares
City of entity: Palma, Spain
Name principal investigator (PI, Co-PI....): Hidalgo Roldan; Albo Puigserver; Sanz Martín; Moranta; Mallol
Nº of researchers: 16 **Nª people/year:** 5
Funding entity or bodies: Government of the Balearic Islands
Type of participation: Team member
Name of the programme: Biodiversity Projects within the complementary Plan of Recovery, Transformation and Resilience
Start-End date: 01/06/2023 - 01/06/2025 **Duration:** 2 years



Total amount: 107.927 €

Dedication regime: Full time

- 3** **Name of the project:** VADAPES II. Adaptation and mitigation to climate change in the Spanish fisheries sector: Tools to prevent maladaptation in Atlantic and Mediterranean fisheries
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Instituto Oceanográfico de Baleares
City of entity: Palma, Spain
Name principal investigator (PI, Co-PI....): Albo Puigserver; Hidalgo Roldan; Sanz Martín; Moranta; Mallol; López-López; Velasco; Morillas; García; Esteban
Nº of researchers: 10
Funding entity or bodies:
Government of the Balearic Islands
Type of participation: Team member
Name of the programme: Spanish National Plan for Adaptation to Climate Change
Start-End date: 01/06/2023 - 01/06/2025 **Duration:** 2 years
Total amount: 252.000 €
Dedication regime: Full time
- 4** **Name of the project:** CLISSARTES. Climate-smart strategies to develop resilience in artisanal fisheries of Mediterranean Marine Protected areas.
Type of project: Research and development, including transfer **Geographical area:** European Union
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Instituto Oceanográfico de Baleares
City of entity: Palma, Spain
Name principal investigator (PI, Co-PI....): Sanz Martín 1; Hidalgo Roldan; López López; Albo Puigserver; Moranta; Mallol; Brito-Morates; Soto Navarro; García-Molinos
Nº of researchers: 16
Funding entity or bodies:
AXA Research Fund **Type of entity:** Foundation
City funding entity: Paris, France
Type of participation: Principal investigator
Name of the programme: "More resilient Coastal Livelihoods
Start-End date: 01/09/2022 - 31/08/2024 **Duration:** 2 years
Total amount: 190.000 €
Dedication regime: Full time
- 5** **Name of the project:** DOMINO. Desgranando el comportamiento de los cerqueros tropicales para refinar la estimación del esfuerzo desplegado por una de las flotas atuneras más importantes del planeta
Entity where project took place: Instituto Español de Ocenografía
Name principal investigator (PI, Co-PI....): Cabanellas Reboledo
Nº of researchers: 18
Start-End date: 01/12/2021 - 30/09/2022
Total amount: 220.716 €
- 6** **Name of the project:** VADAPES. Vulnerabilidad y desarrollo de estrategias de ADaptación al cambio climático en los recursos PESqueros y los ecosistemas marinos asociados
Entity where project took place: Centro Oceanográfico de Baleares - Instituto Español de Ocenografía



City of entity: Palma, Spain

Nº of researchers: 11

Start-End date: 01/10/2019 - 28/02/2022

Total amount: 173.709 €

Applicant's contribution: Postdoctoral researcher hired to develop the project. Acquisition, handling and statistical treatment of large datasets involving satellite environmental data (e.g. sea surface temperature and chlorophyll a concentration) and fisheries data (e.g. catch and landings) using open-source programs such as R and QGIS; and a meta-analysis on diet feeding information of demersal fishes through an extensive bibliographical review.

7 Name of the project: Plastic Busters MPAs: preserving biodiversity from plastics in Mediterranean Marine Protected Areas

Type of project: Research and development, including transfer

Entity where project took place: Instituto Oceanográfico de Baleares (among many other entities)

Name principal investigator (PI, Co-PI....): Teresa Romeo

Funding entity or bodies:

Interreg Med European Union

Type of entity: Public Research Body

Start-End date: 2018 - 2022

Duration: 4 years

Total amount: 5.055.330 €

Applicant's contribution: Posdoctoral participation

8 Name of the project: ACUIPLASTIC. Plásticos derivados de la acuicultura: impactos y efectos en las redes tróficas marinas

Entity where project took place: Centro Oceanográfico de Baleares

Type of entity: Public Research Body

City of entity: Palma, Balearic Islands, Spain

Nº of researchers: 8

Start-End date: 02/09/2019 - 31/03/2021

Total amount: 165.770 €

Applicant's contribution: Postdoctoral researcher hired full-time for the project

9 Name of the project: Mare Incognitum: Unravelling the mysteries of Arctic Marine Systems

Entity where project took place: Arctic University of Norway (UiT)

City of entity: Tromsø, Norway

Start-End date: 01/01/2013 - 31/12/2018

Applicant's contribution: Predoctoral researcher

10 Name of the project: Carbon Bridge - Bridging productivity regimes in the Arctic Ocean

Identify key words: Arctic; Oceanography; Plankton; Fisheries science; Biochemistry

Identify key words: Marine ecosystem; Oceanography; Marine ecosystems (environment, fisheries and aquaculture interactions)

Type of project: Research and development, including transfer

Geographical area: Non EU International

Degree of contribution: Researcher

Entity where project took place: University of Tromsø

City of entity: Tromsø, Norway

Name principal investigator (PI, Co-PI....): Marit Reigstad

Funding entity or bodies:

Norwegian Research Council

Type of entity: Public Research Body

City funding entity: Norway

Start-End date: 01/09/2013 - 31/12/2017

Duration: 4 years - 4 months



Total amount: 2.210.340 €

Relevant results: CO2 limitation in the Arctic Ocean and Arctic "atlantification"

Dedication regime: Full time

Applicant's contribution: Active member during the entire project period, participating in 3 cruises in the Svalbard Shelf (Arctic Ocean) and contributing to field work, laboratory and statistical analysis, outreach, writing and assistance to 4 project meetings. One paper published as first author in Frontiers in Marine Sciences. Two papers published as first-author, 1 as co-author and 1 manuscript as coauthor are in review process in Frontiers in Marine Sciences.

11 Name of the project: pH and the possible buffering role of the expanding marine vegetation against ocean acidification in coastal waters of Greenland

Identify key words: Plant physiology; Marine biodiversity; Climate change; Acidification

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Entity where project took place: Aarhus University **Type of entity:** University Research Institute

City of entity: Aarhus, Denmark, Denmark

Name principal investigator (PI, Co-PI....): Dorte Krause-Jensen

Funding entity or bodies:

Danish Center for Environment and Energy

Type of entity: University Research Institute

City funding entity: Aarhus, Denmark, Denmark

Type of participation: Team member

Start-End date: 01/05/2013 - 01/05/2015

Total amount: 252.443 €

Dedication regime: Full time

Applicant's contribution: Complete participation during macrophytes experiments of 2 months contributing with the set-up experiments, sampling, laboratory and statistical analysis. One paper published as first author in Journal of Aquatic Botany and one as co-author in Journal of Sciences Advances

12 Name of the project: MEDSEA - MEDiterranean Sea Acidification in a changing climate

Identify key words: Acidification; Oceanography; Plankton; Stock assessment (fisheries science); Pollution

Entity where project took place: Universitat Autònoma de Barcelona

Type of entity: University

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Patrizia Ziveri

Funding entity or bodies:

European Commission - FP7

Type of entity: Public Research Body

Start-End date: 01/02/2011 - 31/07/2014

Total amount: 3.490.169,35 €

Applicant's contribution: Full contribution in a one-month cruise along the Mediterranean Sea with field work, sampling, laboratory analysis, statistical analysis and writing. One paper as second author has been published in the Journal PLoS One.

13 Name of the project: Efecte del canvi global sobre els ecosistemes marins

Identify key words: Acidification; Arctic; Oceanography; Plankton; Marine sciences; Climate change

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Entity where project took place: Greenland Institute of Natural Resources (GINR) **Type of entity:** University

City of entity: Nuuk, Greenland

Name principal investigator (PI, Co-PI....): Núria Marbà; Carlos M Duarte

Funding entity or bodies:



University of Balearic Islands

Type of entity: University**City funding entity:** Palma de Mallorca, Balearic Islands, Spain**Type of participation:** Team member**Start date:** 01/01/2016**Total amount:** 33.753 €**Dedication regime:** Full time**Applicant's contribution:** Four full months of field work, sampling the water column, CO2 addition experiments, laboratory and statistical analysis in the Nuuk's fjord, Greenland. First-author manuscript is in review in Journal of Sciences Advances.

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Alomar, C; Compa, M; Sanz-Martín, M; Fagiano, V; Álvarez, E; Valencia, JM; Deudero, S. A holistic approach to plastic pollution in integrated multi-trophic aquaculture facilities: Plastic ingestion in *Sparus aurata* and *Mytilus galloprovincialis*. *Aquaculture*. 561, 2022. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0044848622007839>>.
DOI: 10.1016/j.aquaculture.2022.738666
Type of production: Scientific paper **Format:** Journal
- 2** Alomar C; Sanz-Martín; Compa; Ríos-Fuster; Álvarez; Ripolles; Valencia; Deudero. Microplastic ingestion in reared aquaculture fish: Biological responses to low-density polyethylene controlled diets in *Sparus aurata*. *Environmental Pollution*. 280 - 116960, 07/2021.
DOI: 10.1016/j.envpol.2021.116960
Type of production: Scientific paper **Format:** Journal
- 3** Sanz-Martín M; Vernet M; Cape M; Mesa E; Delgado-Huertas A; Reigstad M; Wassmann P F; Duarte C M. Relationship between Carbon- and Oxygen-based Primary Productivity in the Arctic Ocean, Svalbard Archipelago. *Frontiers in Marine Sciences*. 6 - 468, 11/07/2019.
DOI: 10.3389/fmars.2019.00468
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 4** Sanz-Martín M.; Hendriks I E; Carstensen, J; Marbà N; Krause-Jensen, D; Sejr, M; Duarte C.. Continuous daylight stimulates the photosynthetic response of sub-Arctic macrophytes with CO2 supply. *Aquatic Botany*. 158 - 103126, 13/06/2019.
DOI: 10.3389/fmars.2018.00221
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: SCOPUS
Impact index in year of publication: 2.89
Source of citations: SCOPUS **Citations:** 1



- 5** Olli K; Halvorsen E; Vernet M; Lavrentyev P J; Sanz-Martín M; Paulsen M L; Reigstad M. Food web functions and interactions during spring and summer in the Arctic Water inflow region: Investigated through inverse modelling. *Frontiers in Marine Science*. 6 - 244, *Frontiers in Marine Science*, 28/05/2019. ISSN 2296-7745
Type of production: Scientific paper **Format:** Journal
- 6** Sanz-Martín M; Chierici M; Mesa E; Carrillo-de-Albornoz P; Delgado-Huertas A; Agustí S; Reigstad M; Kristiansen S; Wassmann P; Duarte C M. Episodic arctic CO₂ limitation in the west Svalbard shelf. *Frontiers in Marine Science*. 5, pp. 1 - 11. 06/07/2018.
DOI: 10.3389/fmars.2018.00221
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: SCOPUS
Impact index in year of publication: 2.89
Source of citations: SCOPUS **Citations:** 1
- 7** Mesa E; Delgado-Huertas A; Carrillo-de-Albornoz P; García-Corral LS; Sanz-Martín M; Wassmann P; Reigstad M; Sejr M; Dalsgaard T; Duarte CM. Continuous daylight in the high-Arctic summer supports high plankton respiration rates compared to those supported in the dark. *Scientific reports*. 7, pp. 1247. 01/12/2017.
DOI: 10.1038/s41598-017-01203-7
PMID: 28455523
Type of production: Scientific paper **Format:** Journal
Impact source: SCOPUS
Impact index in year of publication: 4.36
- 8** Krause-Jensen D; Marbà N; Sanz-Martin M; Hendriks IE; Thyrring J; Carstensen J; Sejr MK; Duarte CM. Long photoperiods sustain high pH in Arctic kelp forests. *Science advances*. 2, pp. 1 - 8. 14/12/2016.
DOI: 10.1126/sciadv.1501938
PMID: 27990490
Type of production: Scientific paper **Format:** Journal
Impact source: SCOPUS
Impact index in year of publication: 11.06
Source of citations: SCOPUS **Citations:** 9
- 9** M Sanz-Martín; K A Pitt; R H Condon; C H Lucas; C Novaes de Santana; C M Duarte. Flawed citation practices facilitate the unsubstantiated perception of a global trend toward increased jellyfish blooms. *Global Ecology and Biogeography*. 25 - 9, pp. 1039 - 1049. John Wiley & Sons Ltd, 22/06/2016.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 6 **Corresponding author:** Yes
Impact source: SCOPUS
Impact index in year of publication: 6.80
Source of citations: SCOPUS **Citations:** 10
- 10** Holding J; Duarte C; Sanz-Martín M; Mesa E; Arrieta J; Chierici M; Hendriks I; García-Corral L; Regaudie-De-Gioux A; Delgado A; Reigstad M; Wassmann P; Agustí S. Temperature dependence of CO₂-enhanced primary production in the European Arctic Ocean. *Nature Climate Change*. 5, pp. 1079 - 1082. 01/12/2015. ISSN 1758678X
DOI: 10.1038/nclimate2768



Type of production: Scientific paper **Format:** Journal
Impact source: SCOPUS
Impact index in year of publication: 9.64
Source of citations: SCOPUS **Citations:** 22

- 11** Cózar A; Sanz-Martín M; Martí E; González-Gordillo JI; Ubeda B; Gálvez JÁ; Irigoien X; Duarte CM. Plastic accumulation in the Mediterranean sea. PloS One. 10, pp. 1 - 12. 01/04/2015.

DOI: 10.1371/journal.pone.0121762

PMID: 25831129

Type of production: Scientific paper **Format:** Journal

Impact source: SCOPUS

Impact index in year of publication: 3.32

Source of citations: SCOPUS **Citations:** 130

- 12** Sanz-Martín M; Meire L; Sejr M K; Agustí S; Juul-Pedersen T; Duarte C M. CO2 limits Arctic spring bloom production (submitted). Science Advances.

Type of production: Scientific paper

- 13** Pilar Tugores; Marina Sanz-Martín; Gabriel Jordà; José Castro; Enric Massutí. Migration patterns of Atlantic pomfret (*Brama brama*) in the Mediterranean Sea (in prep). In prep,

Type of production: Scientific paper

Format: Scientific and technical document or report

Corresponding author: No

- 14** Gabriel Jordà; Marina Sanz-Martín; Joaquim Tomàs-Ferrer; Pilar Tugores; Enric Massutí. Potential vulnerability of demersal fisheries to Western Mediterranean warming (in prep.).

Type of production: Scientific paper

Corresponding author: No

- 15** Marit Reigstad; Camilla Svensen; Maria Lund Paulsen; Achim Randelhoff; Marina Sanz-Martín; Kalle Olli; Jean-Eric Tremblay; Maria Vernet. Seasonal marine primary production change with season: implications for future arctic carbon cycling (in prep.).

Type of production: Scientific paper

Format: Scientific and technical document or report

Corresponding author: No

Works submitted to national or international conferences

- 1** **Title of the work:** Mediterranean demersal species shift their distributions to track climate velocity with constrained responses (Poster Communication)

Name of the conference: ASLO 2023 Aquatic Sciences Meeting

Corresponding author: Yes

City of event: Palma, Spain

Date of event: 09/06/2023

Organising entity: ASLO 2023 Aquatic Sciences Meeting

Sanz-Martín; Woźniacka; Albo-Puigserver; López-López; Polo; Brito-Morales; Moranta; Punzón; Mallol; Hidalgo.

- 2** **Title of the work:** Temporal changes in species diversification of small-scale fisheries in the Balearic Islands (Poster)

Name of the conference: ASLO 2023 Aquatic Sciences Meeting



City of event: Palma, Spain
Date of event: 09/06/2023
Organising entity: ASLO 2023 Aquatic Sciences Meeting
Albo-Puigserver; Sanz-Marfin; López-López; Moranta; Mallol; Hidalgo.

3 Title of the work: Understanding spatio-seasonal changes in commercial marine species through climate connectivity patterns (Oral)

Name of the conference: Symposium on Human Impacts on Marine Functional Connectivity

Corresponding author: Yes

City of event: Sesimbra, Portugal

Date of event: 20/05/2023

Organising entity: International Council for the Exploration of the Sea (ICES)

Sanz-Marfin; Woźniacka; Albo-Puigserver; López-López; Brito-Morales; Polo; Moranta; Punzón; Mallol; Hidalgo.

4 Title of the work: Climate-driven responses of Mediterranean fisheries across geographic gradients and seasons (Oral)

Name of the conference: Effects of Climate Change on the World's Ocean (ECCWO5)

Corresponding author: Yes

City of event: Bergen, Norway

Date of event: 17/04/2023

Organising entity: ICES-PICES

Sanz-Marfin; Woźniacka; Albo-Puigserver; López-López; Brito-Morales; Polo; Moranta; Punzón; Mallol; Hidalgo.

5 Title of the work: Species diversification, economic portfolio and connectivity within small-scale fisheries in the Balearic Islands (Oral)

Name of the conference: Effects of Climate Change on the World's Ocean (ECCWO5)

City of event: Bergen, Norway

Date of event: 17/04/2023

Organising entity: ICES-PICES

Albo-Puigserver; Sanz-Marfin; López-López; Moranta; Mallol; Hidalgo.

6 Title of the work: Interacciones entre pesca y cambio climático: de la sensibilidad de las especies a la vulnerabilidad de las pesquerías.

Name of the conference: Foro Científico de Pesca en el Mediterráneo

City of event: San Carles de la Ràpita, Spain

Date of event: 20/09/2022

Organising entity: Universidad de Alicante

Type of entity: University

City organizing entity: Spain

Lucía Lopez-Lopez; Julia Polo; Antonio Punzón; Sáinz-Bariáin, M; Aragão, G.M; García-Rodríguez, E.; Vivas, M.; Esteban, A.; Pecuchet, L.; Guijarro, E.; González-Irusta, J.M.; Gil de Sola, L; Rodríguez, A.; Hidalgo, M.

7 Title of the work: Velocity of climate change drives unexpected and resilient responses in species of the Western Mediterranean Sea (Best Oral Presentation Awarded)

Name of the conference: ICES-ASC 2022

Corresponding author: Yes

City of event: Dublin,

Date of event: 19/09/2022

End date: 23/09/2022

Organising entity: ICES-ASC 2022



City organizing entity: Palma, Spain

Sanz Martín; Hidalgo; Punzón; Esteban; García-Rodríguez; Vivas; García-Molinos; López-López.

DOI: <https://doi.org/10.17895/ices.pub.21557922.v1>

- 8** **Title of the work:** Contrasting effects of fishing and warming on functional traits configuration of Mediterranean and Atlantic demersal communities (Awarded Poster)
Name of the conference: Margen Ibérico Atlántico / X Simpósio sobre a Margem Ibérica Atlântica (MIA2022)
City of event: Bilbao,
Date of event: 01/07/2022
Organising entity: Universidad del País Vasco UPV/EHU
J. Polo; M. Sainz-Bariain; L. Pecuchet; M. Hidalgo; A. Punzón; E. García; M. Vivas; A. Esteban; J.M. González-Irusta; M. Sanz-Martín; L. Gil de Sola; A. Rodriguez; L. López-López.
- 9** **Title of the work:** Structure of the demersal food web in Western Mediterranean Sea
Name of the conference: V Symposium on Ecological Networks (ECONET 2021)
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Palma, Spain
Date of event: 10/11/2021
Organising entity: Universidad de las Islas Baleares **Type of entity:** University
Lucía López-López; Marina Sanz-Martín; Marta Sáinz-Bariain; Marina Zamanillo; Encarnación García; Miguel Vivas; Antonio Esteban; Manuel Hidalgo.
- 10** **Title of the work:** The character and fate of marine primary production change with season: implications for future arctic carbon cycling
Name of the conference: A changing Arctic: Nature Conferences
Corresponding author: No
City of event: Tromso, Norway
Date of event: 02/06/2020
End date: 05/06/2020
Organising entity: Springer Nature **Type of entity:** Innovation and Technology Centres
Marit Reigstad; Camilla Svensen; Maria Lund Paulsen; Achim Randelhoff; Marina Sanz-Martín; Kalle Olli; Jean-Eric Tremblay; María Vernet. "The character and fate of marine primary production change with season: implications for future arctic carbon cycling".
- 11** **Title of the work:** Potential vulnerability of demersal fisheries to Western Mediterranean warming
Name of the conference: EGU General Assembly 2020: Sharing Geoscience Online
Corresponding author: No
City of event: On-line,
Date of event: 06/05/2020
Organising entity: EGU General Assembly 2020
Joaquim Tomàs-Ferrer; Marina Sanz-Martín; M. Pilar Tugores; Gabriel Jordà; Enric Massutí. "Potential vulnerability of demersal fisheries to Western Mediterranean warming".
DOI: <https://doi.org/10.5194/egusphere-egu2020-6088>,
- 12** **Title of the work:** Arctic primary production estimates thought three different methods: Are they comparable and what do they tell us?
Name of the conference: Arctic Frontiers Science
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Tromsø, Norway



Date of event: 22/01/2017

End date: 27/02/2017

Organising entity: University of Tromsø

Type of entity: University

City organizing entity: Tromsø, Norway

Type of contribution: Scientific paper

Sanz-Martín M; Vernet M; Mesa E; Carrillo?de?Albornoz P; Cape M; Delgado?Huertas A; Reigstad M; Wassmann PF; Duarte C M.

- 13 Title of the work:** Seasonal shift of zooplankton species related to different productivity regimes in the Atlantic inflow north of Svalbard

Name of the conference: Arctic Frontiers Science

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Tromsø, Norway

Date of event: 22/01/2017

End date: 27/02/2017

Organising entity: University of Tromsø

Type of entity: University

City organizing entity: Tromsø, Norway

Type of contribution: Scientific paper

Svensen C; Dmoch K; Seuthe L; Vernet M; Halvorsen E; Sanz-Martín M; Duarte C M; Reigstad M; Wassmann PF.

- 14 Title of the work:** Bloom stage characteristics in an Atlantic-influenced Arctic marine ecosystem and implications for future productivity pathways

Name of the conference: Arctic Frontiers Science

Type of participation: Participatory - Plenary session

City of event: Tromsø, Norway

Date of event: 22/01/2017

End date: 27/02/2017

Organising entity: University of Tromsø

City organizing entity: Tromsø, Norway

Type of contribution: Scientific paper

Reigstad M; Seuthe L; Ellingsen I; Paulsen M L; Duarte C M; Olli K; Kristiansen S; Matrai P; Randelhoff A; Sanz-Martín M; Svensen C; Tremblay J E; Vernet M; Wassmann PF; József W.

- 15 Title of the work:** Evaluation of planktonic metabolism in the Arctic using the 18O method

Name of the conference: 2015 Aquatic Sciences Meeting (ASLO)

Type of event: Conference

Type of participation: Participatory - poster

Corresponding author: No

City of event: Granada, Andalusia, Spain

Date of event: 22/02/2015

End date: 27/02/2015

Organising entity: Universidad de Granada

Type of entity: University

City organizing entity: Spain

Type of contribution: Scientific paper

Mesa E; Delgado?Huertas A; A Granados; García-Corral L; Carrillo?de?Albornoz P; Sanz-Martín M; Wassmann PF; Reigstad M; Duarte C M.



- 16** **Title of the work:** Control of coastal pH depends on photoperiod
Name of the conference: Aquatic Science Meeting (ASLO)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Granada, Andalusia, Spain
Date of event: 22/02/2015
End date: 27/02/2015
Organising entity: University of Granada
City organizing entity: Granada, Spain
Type of contribution: Scientific paper
Karuse-Jensen D; Marbà N; Hendriks I; Marina Sanz-Martín; Carstensen J; Sejr M; Duarte CM. "Control of coastal pH depends on photoperiod".
- 17** **Title of the work:** Floating plastic debris in Mediterranean Sea
Name of the conference: Aquatic Science Meeting (ASLO)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Granada, Andalusia, Spain
Date of event: 22/02/2015
End date: 27/02/2015
Organising entity: University of Granada
City organizing entity: Granada, Spain
Type of contribution: Scientific paper
Marina Sanz-Martín; Cózar A; Martí E; González-Gordillo JI; Ubeda B; Gálvez JÁ; Irigoien X; Duarte CM. "Floating plastic debris in Mediterranean Sea".
- 18** **Title of the work:** Is the global rise of jellyfish blooms a case of Broken Telephone? An analysis of citation networks on trends in jellyfish
Name of the conference: Fourth International Jellyfish Bloom Symposium
Type of participation: Participatory - Plenary session
City of event: Hiroshima, Japan
Date of event: 05/06/2013
End date: 07/06/2013
Organising entity: University of Hiroshima
City organizing entity: Hiroshima, Japan
Type of contribution: Scientific paper
Sanz-Martín M; Pitt K; Duarte C M; Novaes de Santana C; Lucas H C; Condon R.

R&D management and participation in scientific committees

Organization of R&D activities

Title of the activity: Organizer of session SS069 'Promoting Resilience Through Climate-Smart Fisheries and Conservation Management'

Type of activity: Conference Session Organizer at ASLO 2023 Aquatic Sciences Meeting

Geographical area: Non EU International

Convening entity: ASLO 2023 Aquatic Sciences Meeting

Type of entity: Public Research Body

City convening entity: Palma, Spain

Start-End date: 09/06/2023 - 09/06/2023

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** King Abdullah University of Science and Technology (KAUST) **Type of entity:** University
Faculty, institute or centre: Red Sea Research Center
City of entity: Jeddah, Saudi Arabia
Start-End date: 08/04/2017 - 21/05/2017 **Duration:** 1 month - 13 days
Goals of the stay: Doctorate
Provable tasks: Meeting, statistical analysis and writing manuscripts
- 2** **Entity:** Greenland Institute of Natural Resources (GINR) **Type of entity:** University Research Institute
City of entity: Nuuk, Greenland
Start-End date: 15/02/2016 - 03/06/2016 **Duration:** 3 months - 18 days
Goals of the stay: Doctorate
Provable tasks: Field work, sampling, laboratory and statistical analysis
- 3** **Entity:** King Abdullah University of Science and Technology (KAUST) **Type of entity:** University
Faculty, institute or centre: Red Sea Research Center
City of entity: Jeddah, Saudi Arabia
Start-End date: 26/01/2016 - 05/02/2016 **Duration:** 10 days
Goals of the stay: Doctorate
Provable tasks: Meeting, statistical analysis and writing manuscripts
- 4** **Entity:** Arctic University of Norway (UiT) **Type of entity:** University
Faculty, institute or centre: Department of Arctic and Marine Biology
City of entity: Tromso, Norway
Start-End date: 12/04/2015 - 23/05/2015 **Duration:** 1 month - 11 days
Funding entity: Research Council of Norway
Name of programme: UiT - Carbon Bridge project: Bridging productivity regimes in the Arctic Ocean
Goals of the stay: Doctorate



Provable tasks: Research on biogeochemical oceanography and planktonic primary productivity in Svalbard

5 **Entity:** Arctic University of Norway (UiT) **Type of entity:** University
Faculty, institute or centre: Department of Arctic and Marine Biology
City of entity: Tromsø, Norway
Start-End date: 02/08/2014 - 21/08/2014 **Duration:** 20 days
Funding entity: Research Council of Norway
City funding entity: Tromsø, Norway
Name of programme: Carbon Bridge: Bridging productivity regimes in the Arctic Ocean
Goals of the stay: Doctorate
Provable tasks: Scientific research in north-west of Spitsbergen

6 **Entity:** Arctic University of Norway (UiT) **Type of entity:** University
Faculty, institute or centre: Department of Arctic and Marine Biology
City of entity: Tromsø, Norway
Start-End date: 12/05/2014 - 04/06/2014 **Duration:** 21 days
Funding entity: Research Council of Norway
City funding entity: Tromsø, Norway
Name of programme: Carbon Bridge: Bridging productivity regimes in the Arctic Ocean
Goals of the stay: Doctorate
Provable tasks: Scientific research in north-west of Spitsbergen

7 **Entity:** Arctic University of Norway (UiT) **Type of entity:** University
Faculty, institute or centre: Department of Arctic and Marine Biology
City of entity: Tromsø, Norway
Start-End date: 04/01/2014 - 29/01/2014 **Duration:** 1 month
Funding entity: Research Council of Norway
City funding entity: Tromsø, Norway
Name of programme: Carbon Bridge: Bridging productivity regimes in the Arctic Ocean
Goals of the stay: Doctorate
Provable tasks: Marine ecological research in Spitsbergen and the Barents Sea

8 **Entity:** Universidad de Cádiz **Type of entity:** University
City of entity: Cádiz, Andalusia, Spain
Start-End date: 09/04/2013 - 06/07/2013 **Duration:** 3 months
Goals of the stay: Guest
Provable tasks: Sampling and analyzing plastic debris

Prizes, mentions and distinctions

1 **Description:** Best Presentation by an Early Career Scientist
Awarding entity: International Council for the Exploration of the Sea (ICES) **Type of entity:** Public Research Body
Conferral date: 23/09/2022
Recognition linked: <https://www.ices.dk/news-and-events/news-archive/news/Pages/ASCaward22.aspx>

2 **Description:** PhD Excellence Grant
Awarding entity: Obra Social Fundación la Caixa **Type of entity:** Foundation
City awarding entity: Spain



Conferral date: 01/09/2013

Recognition linked: <https://becarioslacaixa.net/marina-sanz-martin-B003828>

Summary of other achievements

- 1** **Description of the achievement:** YouTube Video-Speech: Strategies to Develop Resilience in Artisanal Fisheries
Accrediting entity: AXA Research Fund
Conferral date: 31/05/2023
- 2** **Description of the achievement:** Interview - Españoles en la mar
Accrediting entity: Spanish National Radio (RNE)
Conferral date: 04/05/2023
- 3** **Description of the achievement:** Article in CSIC - CLISSARTES project presentation
Accrediting entity: Delegación CSIC Illes Balears
Conferral date: 13/04/2023
- 4** **Description of the achievement:** Article in a local magazine
Accrediting entity: La Gaceta Náutica
Conferral date: 13/04/2023
- 5** **Description of the achievement:** Article in a local newspaper
Accrediting entity: Diario de Mallorca
Conferral date: 13/04/2023
- 6** **Description of the achievement:** Article in fisheries news: La científica Marina Sanz-Martín analiza cómo mejorar la resiliencia de la pesca artesanal mediterránea ante el cambio climático.
Accrediting entity: Industrias Pesqueras
Conferral date: 13/04/2023
- 7** **Description of the achievement:** Ocean Decade News: Estrategias climáticamente inteligentes para desarrollar la resiliencia de la pesca artesanal en las áreas marinas protegidas del Mediterráneo
Accrediting entity: UNESCO - IOC
Conferral date: 06/04/2023
- 8** **Description of the achievement:** Talk Ellas hacen ciencia
Accrediting entity: Mujeres Conciencia y Ayuntamiento de Bilbao-Bilboko Udala
City accrediting entity: Bilbao,
Conferral date: 11/11/2021
- 9** **Description of the achievement:** EL CAMBIO CLIMÁTICO SON LOS PADRES #3 ¿El CC es el que está llenando las playas de medusas?
Accrediting entity: Scenio TV - Universidad del País Vasco
Conferral date: 27/02/2020
- 10** **Description of the achievement:** Active member
Accrediting entity: Plataforma 11F de Mujeres Científicas de Baleares
Conferral date: 01/01/2020



- 11** **Description of the achievement:** Blog entrance for the International Day of Oceans & Gender "La oceanografía desde una perspectiva feminista"
Accrediting entity: Fundación AQUAE
Conferral date: 07/06/2019
- 12** **Description of the achievement:** Science speech and storytelling: "Ángeles Alvariño, la gallega y pionera oceanógrafa"
Accrediting entity: Festival Mar de Mares
Conferral date: 22/09/2018
- 13** **Description of the achievement:** YouTube CoolCiencia. Efectos de la subida de los niveles de CO2 en el Océano Ártico.
Accrediting entity: Canal de Apadrina La Ciencia
Conferral date: 28/07/2018
- 14** **Description of the achievement:** Semifinalista de Famelab España 2018: "Algo pasa en el Ártico"
Accrediting entity: Famelab Science Communication and Competition - FECYT
Conferral date: 09/04/2018
- 15** **Description of the achievement:** Scientific speech in YouTube: "Marina Sanz-Martín - 1st COIMBRA GROUP Thesis Competition in 3 minutes"
Accrediting entity: COIMBRA GROUP Thesis Competition
Conferral date: 19/03/2017