



## **Gorka Bidegain Cancer**

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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.

Gorka Bidegain (GB) is an assistant professor (Profesor Laboral Interino) of the University of the Basque Country at the Preventive Medicine and Public Health Department (28 ECTS) and a Research Affiliate of the University of Southern Mississippi (USM). His main research interests lie within disease modelling, disease ecology and population dynamics. He conducts laboratory/field experiments and uses advanced mathematical and computational ecological modelling techniques to identify and assess the population and ecosystem responses to pressures and ecological and environmental heterogeneities. GB plans to develop new models, methodologies and algorithms with implications for the understanding of how climate variability interacts with marine host-pathogen systems. Recently he was awarded a Juan de la Cierva Incorporación Research grant for working at CSIC in Mallorca.

GB is a certified Adjunct Professor (UNIBASQ). He has supervised two Master thesis. He has co-organized a marine disease modeling conference session and a workshop in an international venue, developing, presenting and assisting in several teaching lectures and activities directed to junior/senior faculties and graduate students. He also taught/organized a field/laboratory marine biology course under a COST ACTION project.

GB completed his degrees in Marine Science and Environmental Science. He was awarded a Research Scholarship in the University of Las Palmas de G.C. and a Research Initiation Fellowship (CSIC). He was also awarded a MSc research fellowship to study Coastal and Port Engineering Master in the Polytechnic University of Catalonia. In 2009 GB was awarded a PhD scholarship from the Environmental Hydraulics Institute of Cantabria and obtained his PhD in Environmental Hydraulics and Ecology at the University of Cantabria (UC) in 2013. He was awarded a PhD Excellence Award from the UC. After obtaining his PhD, he moved to the USM (USA) in August 2013 after being awarded a NSF Fellowship to work as a Postdoctoral Researcher in marine disease modeling. This research required that he spend considerable time (4 months) at the Old Dominion University working with the modeling team.

GB has participated in 16 national and international R&D competitive projects and contracts with administration, including two EU projects such as a EMBOS (COST action under Horizon 2020) and THESEUS (FP7 - Environment project), two National Science Foundation projects in USA. GB also served as PI on a regional fisheries project (project 3 in R&D contracts).

GB has published 19 articles in top rank peer reviewed journals (13 as first author, 16 in Q1, resulting in 160 citations ~32 citations/year), 2 book chapters, several scientific/technical reports and open access computer codes (R, Matlab) and participated in more than 25 national/international conferences. He has reviewed more than 30 papers and 2 US grant proposals. He is member of the (1) Expert Review panel of the Intergovernmental Panel on Climate Change (IPCC) Global Warming Special Reports, (2) Ecology of Infectious Marine Diseases Research Coordination Network (EIMD-RCN) (Cornell University, USA), and (3) International Research Network Ecosystem Health and Environmental Disease Ecology. He is also member of the Editorial Board of Frontiers in Marine Science. GB is member of the Ecological Society of America, National Shellfish Association and the Estuarine and Coastal Sciences Association.

## 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.

- Teaching: Assistant professor of the University of Basque Country since 10/2017 (28.1 ECTS). Certified UNIBASQ Adjunt Profesor ('Profesor Adjunto' UNIBASQ, similar to 'Profesor Ayudante Doctor of ANECA). 2 MSc supervised. Currently, supervising 2 PhD. Several teaching lectures and activities directed to faculty and graduate students (University of Cantabria, Old Dominion University).
- Number of publications in peer reviewed journals in the last five years: 19
- Number of book chapters in the last five years: 2
- Publications as first author: 13
- Publications as second author: 4
- Publications in the first quartile (Q1): 16
- Manuscripts under review: 2
- Drafts in preparation: 2
- Number of citations in the last 5 years: 160
- Average citation/year in the last 5 years: 32
- H-index (Google Scholar): 8
- Scientific/technical reports/computational codes: 6
- Works presented in international conferences 2013-2017: 29 (18 as first author)
- Participation in 16 national and international funded projects (USA, EU, National, Regional). co-PI of a regional project (see project 3 in R&D non-competitive contracts).
- Member of the Expert Review panel of the Intergovernmental Panel on Climate Change (IPCC) Global Warming Special Reports, the Ecology of Infectious Marine Diseases Research Coordination Network (EIMD-RCN) (Cornell University), and the International Research Network Ecosystem health and environmental disease ecology.
- Member of the Editorial Board of Frontiers in Marine Science.
- Papers reviewed (SCI journals in the field of ecology): 28
- Grants reviewed: 2 US grants in the field of marine ecology and fisheries
- Grants, Honors and Awards:
  - Juan de la Cierva Incorporación 2016 Fellowship
  - PostDoctoral Fellowship. National Science Foundation-USM. Aug 2013-Dec 2015.
  - PhD Excellence Award by the University of Cantabria. 2016.
  - Workshop Grant. Applied Biostatistics with R. Marie Curie Actions. FP 7. NIOZ. 2010.
  - Doctoral Fellowship. University of Cantabria. Feb 2009-Jul 2013.
  - MSc Scholarship. UPC-Barcelona Port Authority.
  - Junior Research Fellowship. Spanish National Research Council, CSIC.
  - Junior Research Scholarship. Ministry of Education, Culture and Sport.



## Gorka Bidegain Cancer

Surname(s): **Bidegain Cancer**  
Name: **Gorka**  
DNI: **44143881G**  
ORCID: **0000-0002-2173-5140**  
Date of birth: **04/11/1974**  
Gender: **Male**  
Nationality: **Spain**  
Country of birth: **Spain**  
Aut. region/reg. of birth: **Catalonia**  
Contact province: **Gipuzkoa**  
City of birth: **Barcelona**  
Contact address: **AVDA NAVARRA 35 1-C**  
Postcode: **20800**  
Contact country: **Spain**  
Contact aut. region/reg.: **Basque Country**  
Contact city: **Zarautz**  
Land line phone: **(34) 943831541**  
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Personal web page: **[https://www.researchgate.net/profile/Gorka\\_Bidegain/contributions](https://www.researchgate.net/profile/Gorka_Bidegain/contributions)**

### Current professional situation

**Employing entity:** University of the Basque Country      **Type of entity:** University

**Department:** Environmental Sciences / Pharmacy

**Professional category:** Assistant Professor (Adjunt)

**Type of contract:** Temporary employment contract

**Primary (UNESCO code):** 240106 - Animal ecology; 321200 - Public health

**Performed tasks:** Assistant Professor (Profesor Laboral Interino) at the Preventive Medicine and Public Health Department (Subjects: Biostatistics, Epidemiology and Public Health in Basque and Spanish). 28 ECTS of teaching experience. Research on disease ecology, epidemiology, climate change and public health, nonparametric statistics applied in biology.

### Previous positions and activities

	Employing entity	Professional category	Start date
1	Gulf Coast Research Laboratory, University of Southern Mississippi	Postdoctoral Research Associate / Research Affiliate	20/08/2013
2	FUNDACIÓN INSTITUTO DE HIDRÁULICA AMBIENTAL DE CANTABRIA	Research Associate/PhD Student	01/01/2011
3		PhD Fellow/PhD Student	01/02/2009

	Employing entity	Professional category	Start date
	FUNDACIÓN INSTITUTO DE HIDRÁULICA AMBIENTAL DE CANTABRIA		
4	Bureau Veritas, Department of Aquaculture and Fisheries	Biologist	01/06/2008
5	Grupo Tragsa, Gestión del Medio Marino	Marine Scientist	15/01/2008
6	SERTIIC Engineering and Environment	Marine Scientist	06/2003
7	Intecsa Inarsa	Marine Scientist	03/2001
8	Universitat Politècnica de Catalunya	Postgraduate Fellow/MSc Student (Master Scholarship)	01/2000
9	Centro de Estudios Avanzados de Blanes, CSIC	Postgraduate Fellow (Research Initiation Fellowship)	07/1997
10	Universidad de las Palmas de Gran Canaria	Teaching Assistant (Research Scholarship)	01/1997
11	Marine Research Station, EDIMAR, Fundación La Salle	Teaching Assistant (Research Scholarship)	06/1994

**1 Employing entity:** Gulf Coast Research Laboratory, University of Southern Mississippi

**Professional category:** Postdoctoral Research Associate / Research Affiliate

**Start-End date:** 20/08/2013 - 31/12/2017

**Duration:** 2 years - 5 months - 11 days

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

**Performed tasks:** The applicant Gorka Bidegain (GB) was based at the University of Southern Mississippi working with Dr. Eric Powell, although he spent considerable time at the Center of Coastal Physical Oceanography (CCPO) at Old Dominion University working with Dr. Eileen Hofmann and Dr. John Klinck to develop and implement a range of models designed to investigate marine disease processes, especially those associated with transmission. The research project concerned the development of the first general model for marine diseases and the first serious comprehensive modeling effort to adapt contact-based Kermack-McKendrick transmission models to the marine world. The proposal that was funded emphasized the need to develop models that could be solved analytically and also models coupled with hydrodynamic models that, necessarily, required numerical solutions. GB described in two papers (Ecosphere, Ecological Modelling) a comprehensive theoretical modeling approach to marine diseases that will represent the state-of-the-art for a long time. These are the seminal papers in the field and establish the jumping off point for all future marine models dealing with the transmission of marine diseases. GB showed in a third paper the basic reproduction number for arguably the most famous of marine pandemic diseases, Dermo (Fisheries Research). This is a very important step forward in our understanding of the pandemic disease process in marine bivalves. GB also collaborated on the development of a model that explores the effect of fisheries on host-parasite dynamics and on a review of parasite transmission through suspension feeding. The results of this research were published in Philosophical Transactions of the Royal Society of London B and Journal of Invertebrate Pathology, respectively. Since returning to Spain from USA (Gulf Coast Research Lab, University of Southern Mississippi, GCRL-USM) Gorka Bidegain is working from his country as a Research Affiliate of GCRL-USM. He is continuing and expanding his research on theoretical and applied ecological models of marine diseases and is working on additional manuscripts describing these results. The present research involves the use of biophysical models to model disease transmission under various distributions of hosts and oceanic current regimes.

**2 Employing entity:** FUNDACIÓN INSTITUTO DE HIDRÁULICA AMBIENTAL DE CANTABRIA

**Department:** Instituto de Hidráulica Ambiental, Universidad de Cantabria

**Professional category:** Research Associate/PhD Student

**Start-End date:** 01/01/2011 - 31/07/2013

**Duration:** 2 years - 7 months

**Type of contract:** Temporary employment contract



**Dedication regime:** Full time

**Primary (UNESCO code):** 240106 - Animal ecology; 251000 - Oceanography

**Secondary (UNESCO code):** 310509 - Habitat influences

**Tertiary (UNESCO code):** 520708 - Population models

**Performed tasks:** Gorka Bidegain (GB) focused his PhD research on the study of ecological dynamics of benthic organisms. He conducted several field surveys and field/lab experiments. He also worked on the development and application of mathematical models to understand some specific ecological processes and interactions that influence the population dynamics of a native European and a nonindigenous clam species. As his major contributions, (1) he demonstrated the habitat suitability and predation as determinants to limit the expansion of the nonindigenous clam in the region of Cantabria and (2) developed a coupled oceanographic larval dispersal-habitat suitability model to determine post-settlement mortality, recruitment intensity and population connectivity. The Government of Cantabria used this results to support the native clam restoration strategies. GB also (i) estimated a nonparametric length-weight regression model using local linear Kernel-smoothers, and calculate the first derivative as a method to estimate a new suitable minimum capture size, and (ii) applied an Ecological Niche Factor Analysis-based habitat suitability model for understanding the potential expansion of the nonindigenous species over the native species. This strong modeling and numerical simulation part of his thesis had a field data and experimental counterpart (which he carried out) so that advances could be grounded with both a theoretical and observational component. The experimental results provided valuable information to understand model predictions.

**Identify key words:** Environmental impacts (environment, fisheries and aquaculture interactions); Metapopulations; Benthic ecosystems; Modelling and modelling tools (fisheries science); Aquatic ecology

**3 Employing entity:** FUNDACIÓN INSTITUTO DE HIDRÁULICA AMBIENTAL DE CANTABRIA

**Department:** Instituto de Hidráulica Ambiental, Universidad de Cantabria

**Professional category:** PhD Fellow/PhD Student

**Start-End date:** 01/02/2009 - 31/12/2010

**Duration:** 1 year - 11 months

**Type of contract:** Temporary employment contract

**Dedication regime:** Full time

**Primary (UNESCO code):** 240106 - Animal ecology; 251000 - Oceanography

**Secondary (UNESCO code):** 310509 - Habitat influences

**Tertiary (UNESCO code):** 520708 - Population models

**Performed tasks:** GB initiated his PhD work. His research was focused on the understanding some specific ecological processes and interactions that influence the population dynamics of a native European (*Ruditapes decussatus*) and a nonindigenous (*Ruditapes philippinarum*) clam species. He conducted experimental (competition and predation experiments) and a substantial amount of field surveys in different estuaries which provided valuable information to understand his model predictions.

**Identify key words:** Environmental impacts (environment, fisheries and aquaculture interactions); Metapopulations; Benthic ecosystems; Modelling and modelling tools (fisheries science); Aquatic ecology

**Applicability in teaching and/or research:** The Government of Cantabria used the results of the habitat suitability of model to support the native clam restoration strategies.

**4 Employing entity:** Bureau Veritas, Department of Aquaculture and Fisheries

**Type of entity:** Testing, Inspection and Certification

**Department:** Department of Aquaculture and Fisheries

**City employing entity:** Madrid, Community of Madrid, Spain

**Professional category:** Biologist

**Educational Management (Yes/No):** No

**Start-End date:** 01/06/2008 - 15/12/2008

**Duration:** 6 months - 15 days

**Type of contract:** Temporary

**Dedication regime:** Part time

**Primary (UNESCO code):** 310500 - Fish and wildlife



**Performed tasks:** Quality Inspection and Certification of hake fisheries

**5 Employing entity:** Grupo Tragsa, Gestión del Medio Marino

**Department:** Gestión del Medio Marino

**Professional category:** Marine Scientist

**Educational Management (Yes/No):** No

**Start-End date:** 15/01/2008 - 25/05/2008

**Duration:** 4 months - 10 days

**Type of contract:** Temporary

**Dedication regime:** Full time

**Primary (UNESCO code):** 240106 - Animal ecology; 531201 - Agricultura, forestry, fishing

**Performed tasks:** Biological surveys of Bluefin tuna (*Thunnus thynnus*) on Mediterranean fishing boats and landing ports. Biometric and gonad analysis.

**Identify key words:** Conservation of fish stocks; Ecology (environment, fisheries and aquaculture interactions) nt6; Aquatic ecology

**6 Employing entity:** SERTIIC Engineering and Environment

**Type of entity:** Marine Environmental Consulting

**Department:** Marine Environmental Division

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

**Professional category:** Marine Scientist

**Educational Management (Yes/No):** No

**Start-End date:** 06/2003 - 12/2007

**Duration:** 4 years - 6 months

**Type of contract:** Collaboration Tasks

**Dedication regime:** Part time

**Primary (UNESCO code):** 120314 - Environmental control systems; 240106 - Animal ecology

**Performed tasks:** Water quality and benthic ecology studies, environmental Impact Assessments in coastal zones including marine protected areas.

**Identify key words:** Benthic ecosystems; Aquatic environment; Anthropogenic impact on ecosystems; Aquatic ecology

**7 Employing entity:** Intecsa Inarsa

**Type of entity:** Maritime Engineering

**Department:** Marine Environmental Division

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

**Professional category:** Marine Scientist

**Educational Management (Yes/No):** No

**Start-End date:** 03/2001 - 06/2003

**Duration:** 2 years - 4 months

**Type of contract:** Temporary

**Dedication regime:** Part time

**Primary (UNESCO code):** 120314 - Environmental control systems; 240106 - Animal ecology

**Performed tasks:** Water quality, air quality and benthic ecology studies, posidonia oceanica conservation studies, environmental Impact Assessments in coastal zones including marine protected areas.

**Identify key words:** Benthic ecosystems; Aquatic environment; Anthropogenic impact on ecosystems; Aquatic ecology

**8 Employing entity:** Universitat Politècnica de Catalunya

**Type of entity:** University

**Department:** CENTRO INTERNACIONAL DE INVESTIGACION DE RECURSOS COSTEROS

**City employing entity:** Barcelona, Catalonia, Spain

**Professional category:** Postgraduate Fellow/MSc Student (Master Scholarship)

**Educational Management (Yes/No):** No

**Start-End date:** 01/2000 - 09/2001

**Duration:** 1 year - 8 months

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

**Dedication regime:** Full time

**Primary (UNESCO code):** 251001 - Biological oceanography; 251007 - Physical oceanography



**Performed tasks:** Water quality data analysis

**Identify key words:** Aquatic biology; Marine ecosystem management; Marine pollution

- 9** **Employing entity:** Centro de Estudios Avanzados de Blanes, CSIC **Type of entity:** Public Research Body  
**Department:** Marine Ecology  
**City employing entity:** Blanes, Catalonia, Spain  
**Professional category:** Postgraduate Fellow (Research Initiation Fellowship) **Educational Management (Yes/No):** No  
**Start-End date:** 07/1997 - 12/1997 **Duration:** 6 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 240106 - Animal ecology; 241705 - Marine biology; 251001 - Biological oceanography; 251007 - Physical oceanography  
**Performed tasks:** Ecological and fishery dynamics of Namibian hake using satellite image analysis.  
**Identify key words:** Aquatic biology; Marine ecosystems and processes; Ecology (environment, fisheries and aquaculture interactions)
- 10** **Employing entity:** Universidad de las Palmas de Gran Canaria **Type of entity:** University  
**Department:** Departamento de Física, Facultad de Ciencias del Mar  
**City employing entity:** Tafira, Canary Islands, Spain  
**Professional category:** Teaching Assistant (Research Scholarship) **Educational Management (Yes/No):** No  
**Start-End date:** 01/1997 - 06/1997 **Duration:** 6 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 250618 - Sedimentology; 251007 - Physical oceanography  
**Performed tasks:** Granulometry and organic matter analysis of sediments from sandy beaches.  
**Identify key words:** Sedimentology
- 11** **Employing entity:** Marine Research Station, EDIMAR, Fundación La Salle **Type of entity:** R&D Centre  
**Department:** Marine Ecology  
**City employing entity:** Isla Margarita, Venezuela  
**Professional category:** Teaching Assistant (Research Scholarship) **Educational Management (Yes/No):** No  
**Start-End date:** 06/1994 - 07/1994 **Duration:** 2 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 241705 - Marine biology; 241713 - Plant ecology  
**Performed tasks:** Primary production studies in Mangroves (*Rizophora* spp), field surveys, laboratory work and data analysis.  
**Identify key words:** Aquatic biology





# Education

## University education

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

- 1** **University degree:** Master  
**Name of qualification:** MSc Teacher Training  
**Degree awarding entity:** University of the Basque Country **Type of entity:** University  
**Date of qualification:** 09/2017  
**Average mark:** Excellent
  
- 2** **University degree:** MAS  
**Name of qualification:** Master of Advances Studies, MAS (Diploma de Estudios Avanzados)  
**Degree awarding entity:** Polytechnic University of Catalonia **Type of entity:** University  
**Date of qualification:** 2005
  
- 3** **University degree:** MSc  
**Name of qualification:** MSc Coastal Engineering and Management  
**City degree awarding entity:** Barcelona, Catalonia, Spain  
**Degree awarding entity:** Universitat Politècnica de Catalunya **Type of entity:** University  
**Date of qualification:** 12/09/2001  
**Average mark:** Outstanding  
**Prize:** End of degree award
  
- 4** **University degree:** BSc  
**Name of qualification:** BSc Environmental Science  
**City degree awarding entity:** Almeria, Andalusia, Spain  
**Degree awarding entity:** Universidad de Almería **Type of entity:** University  
**Date of qualification:** 13/07/1999  
**Average mark:** Excellent  
**Prize:** End of degree award  
**Foreign qualification:** First-class honours
  
- 5** **University degree:** BSc  
**Name of qualification:** BSc Marine Science  
**City degree awarding entity:** Tafira, Canary Islands, Spain  
**Degree awarding entity:** Universidad de las Palmas de Gran Canaria **Type of entity:** University  
**Date of qualification:** 15/07/1997  
**Average mark:** Excellent  
**Prize:** End of degree award  
**Standardised degree:** Yes  
**Foreign qualification:** First-class honours



## Doctorates

**Doctorate programme:** Environmental Hydraulics / Ecological Dynamics  
**Degree awarding entity:** Universidad de Cantabria **Type of entity:** University  
**City degree awarding entity:** Santander, Cantabria, Spain  
**Date of degree:** 08/03/2013  
**DEA awarding entity:** Universitat Politècnica de Catalunya  
**European doctorate:** No  
**Thesis title:** Ecological dynamics of a native and a nonindigenous clam species  
**Thesis director:** José Antonio Juanes De la Peña  
**Thesis co-director:** Andrés García Gómez  
**Obtained qualification:** Apto "Cum Laude"  
**Recognition of quality:** Yes  
**Special doctorate award:** Yes **Date of award:** 04/12/2015

## Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	B1	B1	A1	A1	A1
Catalan	C1	C1	B1	B1	B1
English	C1	C2	C1	C1	C1
Basque	C2	C2	C2	C2	C2

## Teaching experience

### General teaching experience

- 1 Type of teaching:** Official teaching  
**Name of the course:** Epidemiology and Public Health  
**Type of programme:** Bachelor's degree **Type of teaching:** Practical work (classroom-problems)  
**Type of subject:** Core  
**University degree:** BSc Odontology  
**Start date:** 19/02/2018 **End date:** 01/06/2018  
**End date:** 01/06/2018 **Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 8,1  
**Entity:** University of the Basque Country  
**Faculty, institute or centre:** Preventive Medicine and Public Health  
**City of entity:** Leioa,
- 2 Name of the course:** Biostatistics  
**Type of programme:** Bachelor's degree **Type of teaching:** In person theory  
**Type of subject:** Core  
**University degree:** BSc Medicine  
**Start date:** 19/02/2018 **End date:** 01/06/2018  
**End date:** 01/06/2018 **Type of hours/ ECTS credits:** Credits



**Hours/ECTS credits:** 5,7

**Entity:** University of the Basque Country

**Department:** Preventive Medicine and Public Health

- 3** **Name of the course:** Epidemiology  
**Type of programme:** Bachelor's degree **Type of teaching:** In person theory  
**Type of subject:** Core  
**University degree:** BSc Environmental Science  
**Start date:** 02/10/2017 **End date:** 31/12/2017  
**End date:** 31/12/2017 **Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 7,8  
**Entity:** University of the Basque Country  
**Faculty, institute or centre:** Preventive Medicine and Public Health

- 4** **Name of the course:** Public Health / Salud Pública  
**Type of programme:** Bachelor's degree **Type of teaching:** Practical work (classroom-problems)  
**Type of subject:** Core  
**University degree:** BSc Pharmacy  
**Start date:** 02/10/2017 **End date:** 31/12/2017  
**End date:** 31/12/2017 **Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 4,7  
**Entity:** University of the Basque Country  
**Faculty, institute or centre:** Preventive Medicine and Public Health

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

- 1** **Project title:** Ecological food web model for oyster reef management in Mississippi Sound.  
**Type of project:** Doctoral thesis  
**Entity:** University of Southern Mississippi, NASA Stennis Space Center  
**Student:** Courage Klutse  
**Identify key words:** Coastal zone ecosystems and management; Benthic ecosystems; Modelling and modelling tools (fisheries science); Aquatic ecology  
**Date of reading:** 2019
- 2** **Project title:** Modelling eelgrass (*Zostera marina*) distribution along the eastern coast of China  
**Entity:** Ocean university of China  
**Student:** Haddy Yang  
**Date of reading:** 2019
- 3** **Project title:** Recruitment, growth and population structure of *Pollicipes pollicipes* on the coast of Cantabria (Gulf of Biscay, N Spain)  
**Type of project:** Master Thesis  
**Co-director of thesis:** Ana Sillio Calzada  
**Entity:** Universidad de Cantabria **Type of entity:** University  
**Student:** María Belén Gutiérrez Cobo  
**Identify key words:** Benthic ecosystems; Biological oceanography; Aquatic ecology  
**Date of reading:** 09/02/2012



- 4** **Project title:** Identificación de variables e indicadores ambientales sobre el sedimento marino que determinen el impacto de la salmonicultura en el Sur de Chile  
**Type of project:** Master Thesis  
**Co-director of thesis:** Beatriz Echavarri Erasun  
**Entity:** Universidad de Cantabria **Type of entity:** University  
**Student:** Diego Ortiz Cañete  
**Identify key words:** Environmental impacts (environment, fisheries and aquaculture interactions); Ecology (environment, fisheries and aquaculture interactions) nt6; Aquatic ecology  
**Date of reading:** 10/02/2011

## 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:** Research Coordination Network - Evaluating the Impacts of a Changing Ocean on Management and Ecology of Infectious Marine Disease  
**Identify key words:** Animal disease; Benthic ecosystems; Biological oceanography; Aquatic ecology  
**Geographical area:** Non EU International  
**Entity where project took place:** Cornell University  
**City of entity:** Ithaca, United States of America  
**Name principal investigator (PI, Co-PI....):** Drew Harvell  
**Funding entity or bodies:** National Science Foundation **Type of entity:** State agency  
**Start-End date:** 2012 - 2017  
**Total amount:** 553.145 €  
**Dedication regime:** Part time  
**Applicant's contribution:** The applicant developed and parameterized marine disease models using experimental data in order to in the near future increase the understanding of disease ecology and the impacts of climate change in marine systems. He also co-organize and participate in a workshop in marine disease ecology and modelling. He is an active member of the Ecology of Infectious Diseases Research Coordination Network.
- 2** **Name of the project:** Development of a theoretical basis for modeling disease processes in marine invertebrates. OCE-1216220  
**Identify key words:** Animal disease; Benthic ecosystems; Biological oceanography; Aquatic ecology  
**Type of project:** Research and development, including transfer  
**Entity where project took place:** Old Dominion University/University of Southern Mississippi/Rutgers University  
**City of entity:** United States of America  
**Name principal investigator (PI, Co-PI....):** Eric Powell; Eileen Hofmann  
**Nº of researchers:** 13  
**Funding entity or bodies:** National Science Foundation **Type of entity:** State agency  
**Start-End date:** 2012 - 2016  
**Total amount:** 1.384.482 €

**Applicant's contribution:** The applicant developed and parameterized marine disease models using experimental data. The primary objective of the project was to investigate experimentally and theoretically the infective dose-particle flux-population density hypothesis so that a marine equivalent of the base reproduction number ( $R_0$ , a measure of epidemic/epizootic risk) can be specified. When Gorka joined the project, he was asked to develop modeling frameworks to address this objective. He started with the standard Kermack-McKendrick epidemic model framework and modified this for marine invertebrate diseases, with a particular focus on dermo disease in oysters. Gorka modified and expanded the disease equations to include a remote infective particle reservoir in the water column, pathogen acquisition by the host via filtration, and pathogen release into the water column by dead individuals. After setting up and implementing the model frameworks, Gorka did an analytical analysis of the behavior of these models, including determinations of  $R_0$ . These results were published in *Ecosphere*. Gorka also did numerical integrations of the disease models to consider the effects of larval recruitment, filtration rate, particle loss and diffusion-like processes in the water column on disease infection prevalence. These results are summarized in two papers recently published in *Ecological Modeling* and *Fisheries Research*. He also collaborated on the development of a model that explores the effect of fisheries on host-parasite dynamics and on a review paper on parasite transmission through suspension feeding. The results were recently published in *Philosophical Transactions of the Royal Society of London B* and *Journal of Invertebrate Pathology*, respectively (5 papers in total, 3 as first author; and still working in three more papers in the field of disease ecology and ecological modelling in benthic systems). Gorka has also been involved in development and implementation of a benthic disease module for inclusion in the Regional Ocean Modeling System (ROMS), which is community-based circulation modeling framework. He also co-organize and participate in a workshop in marine disease ecology and modelling. He is an active member of the Ecology of Infectious Diseases Research Coordination Network.

- 3 Name of the project:** Innovación en la restauración ambiental de zonas costeras mediante el desarrollo de un sistema piloto integrado para la caracterización, dragado, tratamiento y valorización de lodos y sedimentos con contaminantes orgánicos e inorgánicos (INNODRAVAL) (IPT-310000-2010-17)

**Identify key words:** Marine pollution; Aquatic biology; Marine ecosystems and processes; Benthic ecosystems

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

**Entity where project took place:** Universidad de Cantabria **Type of entity:** University

**Name principal investigator (PI, Co-PI...):** Aina García Gómez; Pedro Avellanosa

**Nº of researchers:** 20

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación. Desarrollo e Innovación Tecnológica (2008-2011). Subprograma INNPACTO Plan Nacional de Investigación Científica

**Type of participation:** Team member

**Start-End date:** 2010 - 2013

**Total amount:** 4.734.696 €

**Applicant's contribution:** Gorka Bidegain was in charge of the laboratory research experiments conducted for determining the effect of turbidity caused by dredging in different clam species.

- 4 Name of the project:** THESEUS, Innovative technologies for safer European coasts in a changing climate.

**Identify key words:** Modelling (environmental risks); Aquatic ecology

**Identify key words:** Aquatic biology; Marine ecosystems and processes; Benthic ecosystems; Climate change

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

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Cantabria **Type of entity:** University

**City of entity:** Santander, Cantabria, Spain

**Name principal investigator (PI, Co-PI...):** Iñigo Losada

**Funding entity or bodies:**

European Commission

**Type of participation:** Team member**Name of the programme:** FP7, WP3 ECOLOGY**Start-End date:** 2009 - 2013**Duration:** 4 years**Total amount:** 6.530.000 €**Dedication regime:** Part time

**Applicant's contribution:** Participation in ecological studies of *Posidonia oceanica*: field surveys, detailed cartography, habitat suitability maps for the THESEUS (Innovative technologies for safer European coasts in a changing climate) project. The largest Integrated Project within coastal risk assessment and mitigation funded by the European Commission (6,530,000 €) and consisted of 31 partner institutes. The project developed a systematic approach to deliver both a low-risk coast for human use and healthy coastal habitats for evolving coastal zones subjected to multiple factors.

**5 Name of the project:** VULMA II. Establecimiento de criterios para la valoración de la vulnerabilidad de las masas de agua sometidas a vertidos urbanos e industriales (VULMA II) (CTM2009-11206)

**Identify key words:** Marine pollution; Aquatic biology; Marine ecosystems and processes; Benthic ecosystems

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

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Cantabria **Type of entity:** University

**City of entity:** Santander, Cantabria, Spain

**Name principal investigator (PI, Co-PI....):** Jose Antonio Revilla Cortezón

**Nº of researchers:** 6

**Funding entity or bodies:**

Ministerio de Ciencia e innovación. Plan Nacional de I+D+i (2008-2011).

**Type of participation:** Team member

**Start-End date:** 2010 - 2012

**Duration:** 3 years

**Total amount:** 54.000 €

**Dedication regime:** Part time

**Applicant's contribution:** The applicant worked in the diving team member of IH cantabria. He participate in the field experiments with mussels to assess the water masses ecological vulnerability.

**6 Name of the project:** Estudio de los aspectos clave para la determinación de caudales ecológicos en estuarios

**Identify key words:** Ecological balance; Aquatic ecology

**Entity where project took place:** Universidad de Cantabria **Type of entity:** University

**Name principal investigator (PI, Co-PI....):** César Álvarez Díaz

**Funding entity or bodies:**

Plan Nacional de I+D+i (2008-2011)

**Name of the programme:** Plan Nacional de I+D+i (2008-2011)

**Code according to the funding entity:** CGL2009-10620/Subprogrma BTE

**Start-End date:** 2009 - 2012

**Total amount:** 122.000 €

**Applicant's contribution:** The applicant was in charge (and conducted) field surveys, field experiments and data analysis for habitat suitability determination



**7** **Name of the project:** VIGES 2. Desarrollo de protocolos específicos para la evaluación del estado químico y del estado ecológico de las masas de agua costeras en el entorno de influencia de vertidos de emisarios submarinos (CTM 2008-04649)

**Identify key words:** Marine pollution; Aquatic biology; Marine ecosystems and processes; Benthic ecosystems

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

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Cantabria **Type of entity:** University

**City of entity:** Santander, Cantabria, Spain

**Name principal investigator (PI, Co-PI....):** Jose Antonio Juanes

**Nº of researchers:** 6

**Funding entity or bodies:**

Ministerio de Ciencia e innovación. Plan Nacional de I+D+i (2008-2011).

**Type of participation:** Team member

**Start-End date:** 2009 - 2011

**Duration:** 3 years

**Total amount:** 108.900 €

**Dedication regime:** Part time

**Applicant's contribution:** The candidate participated as a an active member of the ROV and Diving team. He participated in algae characterization field studies developing vifordeo mosaics and distributions maps to assess the ecological status of coastal waters

**8** **Name of the project:** VULMA I. Establecimiento de criterios para la valoración de la vulnerabilidad de las masas de agua sometidas a vertidos urbanos e industriales (CTM2008-03800/TECNO).

**Identify key words:** Marine pollution; Aquatic biology; Marine ecosystems and processes; Benthic ecosystems

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

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Cantabria **Type of entity:** University

**City of entity:** Santander, Cantabria, Spain

**Name principal investigator (PI, Co-PI....):** Jose Antonio Revilla Cortezón

**Nº of researchers:** 10

**Funding entity or bodies:**

Ministerio de Ciencia e innovación. Plan Nacional de I+D+i (2008-2011).

**Type of participation:** Team member

**Start-End date:** 2009 - 2010

**Duration:** 2 years

**Total amount:** 54.000 €

**Dedication regime:** Part time

**Applicant's contribution:** The applicant worked in the diving team member of IH cantabria. He participate in the field experiments with mussels to assess the water masses ecological vulnerability.

**9** **Name of the project:** VERTITOX, Desarrollo de procedimientos para el control operativo integrado de vertidos al medio litoral (urbano e industrial), mediante el uso de biomarcadores, bioensayos e indicadores del estado ecológico (018/RN08/02.1)

**Identify key words:** Modelling (environmental risks); Aquatic ecology

**Identify key words:** Marine ecosystems and processes; Aquatic environment; Aquatic ecology

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

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Cantabria **Type of entity:** University



**Name principal investigator (PI, Co-PI....):** José Antonio Juanes de la Peña; Pedro Aguirremota  
**N° of researchers:** 10  
**Type of participation:** Team member  
**Name of the programme:** CGL2006-10282/HID  
**Start-End date:** 2008 - 2010 **Duration:** 3 years  
**Total amount:** 738.458 €  
**Dedication regime:** Part time  
**Applicant's contribution:** Diving team member for field experiments with mussels

**10 Name of the project:** Development and implementation of a pan-European Marine Biodiversity Observatory System (EMBOS).

**Identify key words:** Modelling (environmental risks); Aquatic ecology

**Identify key words:** Aquatic biology; Marine ecosystems and processes; Benthic ecosystems; Climate change

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

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Cantabria **Type of entity:** University

**City of entity:** Santander, Cantabria, Spain

**Name principal investigator (PI, Co-PI....):** Herman Hummel

**Funding entity or bodies:**

Programa Europeo COST "European Cooperation in Science and Technology". Action ES1003.

**Type of participation:** Team member

**Name of the programme:** EMBOS

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

**Duration:** 5 years

**Total amount:** 367.383 €

**Dedication regime:** Part time

**Applicant's contribution:** Teaching assistanship

**11 Name of the project:** Catchability of Namibian hakes from the perspective of the spatial dynamics of: fish, fleet and environmental boundaries.

**Identify key words:** Marine ecosystems and processes; Marine ecosystem management; Aquatic ecology

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

**Degree of contribution:** Researcher

**Entity where project took place:** Centro de Estudios Avanzados de Blanes, CSIC

**Name principal investigator (PI, Co-PI....):** Ana Gordo Ezquerro

**Funding entity or bodies:**

Agencia Española de Cooperación Internacional **Type of entity:** State agency

**Type of participation:** Team member

**Start-End date:** 1997 - 2007

**Dedication regime:** Part time

**Applicant's contribution:** Development of hake catchability vs water temperature maps

**12 Name of the project:** Caribbean Coastal Marine Productivity Program (CARICOMP): Sustaining coastal biodiversity benefits and ecosystem services.

**Identify key words:** Coastal zone ecosystems and management; Aquatic ecology

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

**Degree of contribution:** Current university student

**Entity where project took place:** EDIMAR Marine Research Station **Type of entity:** State agency

**Name principal investigator (PI, Co-PI....):** Ramón Varela



**Funding entity or bodies:**

UNESCO, Arthur Foundation, U.S. National Science Foundation, U.S. Coral Reef initiative.

**Type of participation:** Team member

**Start date:** 1995

**Dedication regime:** Full time

**Applicant's contribution:** Mangrove ecology studies, primary production, field surveys

**R&D non-competitive contracts, agreements or projects with public or private entities**

- 1 Name of the project:** Evaluación del stock de las poblaciones de Erizo en la costa de Cantabria.  
**Identify key words:** Aquatic biology; Benthic ecosystems; Ecosystem  
**Type of project:** Research and development, including transfer  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Araceli Puente  
**Nº of researchers:** 6  
**Participating entity/entities:** Universidad de Cantabria  
**Funding entity or bodies:**  
Consejería de Desarrollo Rural, Pesca y Biodiversidad. Gobierno de Cantabria.  
**Start date:** 2013 **Duration:** 6 months  
**Total amount:** 12.000 €  
**Relevant results:** Cartography and stock assessment of sea urchin for setting of fishing quotas
- 2 Name of the project:** Evaluación del stock de las poblaciones de Gelidium corneum en la costa oeste de Cantabria.  
**Identify key words:** Aquatic biology; Benthic ecosystems; Ecosystem  
**Type of project:** Research and development, including transfer  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Araceli Puente  
**Nº of researchers:** 8  
**Participating entity/entities:** Universidad de Cantabria  
**Funding entity or bodies:**  
Consejería de Desarrollo Rural, Pesca y Biodiversidad. Gobierno de Cantabria.  
**Start date:** 2012 **Duration:** 1 year  
**Total amount:** 11.500 €  
**Relevant results:** Cartography and stock assessment of Gelidium. Results supported the setting of fishing quotas
- 3 Name of the project:** Actualización de los modelos de gestión de los recursos marisqueros del litoral de Cantabria.  
**Identify key words:** Aquatic biology; Benthic ecosystems; Ecosystem  
**Type of project:** Research and development, including transfer  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** José Juanes; Gorka Bidegain Cancer  
**Nº of researchers:** 9  
**Participating entity/entities:** Universidad de Cantabria  
**Funding entity or bodies:**  
Consejería de Desarrollo Rural, Pesca y Biodiversidad. Gobierno de Cantabria.  
**Start date:** 2009 **Duration:** 3 years



**Total amount:** 116.000 €

**Relevant results:** Habitat suitability maps, field experiments results and larval dispersion models obtained in the project supported native clam restoration programs of Government of Cantabria

**4 Name of the project:** Red de Control de la Calidad del Litoral de Cantabria. Directiva Marco del Agua.

**Identify key words:** Aquatic biology; Benthic ecosystems; Ecosystem

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

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI...):** José Juanes

**Nº of researchers:** 8

**Participating entity/entities:** Universidad de Cantabria

**Funding entity or bodies:**

Gobierno de Cantabria.

**Type of entity:** State agency

**Start date:** 2006

**Duration:** 4 years

**Total amount:** 142.802 €

## Scientific and technological activities

### Scientific production

**H index:** 8

**Date of application:** 09/07/2018

### Publications, scientific and technical documents

**1** Gorka Bidegain; Xabier Guinda; Araceli Puente; Jose Antonio Juanes. Distribution patterns of the gooseneck barnacle (*Pollicipes pollicipes*, Gmelin, 1789) in the Cantabria region (N Spain): Exploring different population assessment methods. *Journal of Shellfish Research*. 36 - 3, pp. 1 - 10. *Bio One*, 2017. ISSN 0730-8000

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 1

**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee

**Total no. authors:** 4

**Corresponding author:** Yes

**Impact source:** SCOPUS

**Category:** Aquatic Science

**Impact index in year of publication:** 0.72

**Journal in the top 25%:** No

**Position of publication:** 115

**No. of journals in the cat.:** 203

**Relevant publication:** Yes

**2** Patricia L. Luque; Saijin Zhang; Jay R. Rooker; Gorka Bidegain; Enrique Rodríguez Marín. Dorsal fin spines as a non-invasive alternative calcified structure for microelemental studies in Atlantic bluefin tuna. *Journal of Experimental Biology and Ecology*. 486, pp. 127 - 133. Elsevier, 2017.

**Type of production:** Scientific paper

**Format:** Journal

**Corresponding author:** No

**Impact source:** Scopus (SJR)

**Category:** Aquatic Science

**Impact index in year of publication:** 1.796

**Journal in the top 25%:** Yes

**Position of publication:** 23

**No. of journals in the cat.:** 194



**Relevant publication:** Yes

- 3** Bidegain, G.; Powell, E.N.; Klinck, J.M.; Ben-Horin, T.; Hofmann, E.E. Marine infectious disease dynamics and outbreak thresholds: pandemic infection and the potential role of filter feeders. *Ecosphere*. 7 - 4, pp. e01286. Wiley, 2016. Available on-line at: <<http://onlinelibrary.wiley.com/doi/10.1002/ecs2.1286/full>>.

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 5

**Impact source:** Scopus (SJR)

**Impact index in year of publication:** 2.29

**Position of publication:** 35

**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.:** 299

**Relevant publication:** Yes

- 4** Bidegain, G.; Ben-Horin, T. Discrete stochastic marine metapopulation disease model. *PeerJ*. Accepted, PeerJ, 2018. ISSN 21678359

**Type of production:** Scientific paper

**Corresponding author:** Yes

**Impact source:** SCOPUS

**Impact index in year of publication:** 2.2

**Position of publication:** 27

**Category:** Biology

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 217

- 5** Ben-Horin, T.; Bidegain, G.; Burge, C.; Groner, M.; Carnegie, R.; Proestou, D.A.; Bushek, D. Disease at the interface of oyster aquaculture and wild oyster reefs. *Journal of Applied Ecology*. Accepted, Wiley-Blackwell, 2018.

**Type of production:** Scientific paper

**Position of signature:** 7

**Total no. authors:** 8

**Impact source:** SCOPUS

**Impact index in year of publication:** 5.3

**Position of publication:** 15

**Format:** Journal

**Corresponding author:** No

**Category:** Ecology

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 153

- 6** Plastic waste associated with disease in coral reefs. *Frontiers in Marine Science*. 5 - 237, Frontiers, 2018.

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 2

**Impact source:** SCOPUS

**Impact index in year of publication:** 2.8

**Position of publication:** 21

**Format:** Journal

**Category:** Water Science

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 275

- 7** Bidegain, G.; Ben-Horin, T.; Sestelo, M. The role of microplastics on marine disease transmission: an experimental and modelling perspective. *PeerJ*. Accepted, 2018. ISSN 21678359

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 3

**Impact source:** SCOPUS

**Impact index in year of publication:** 2.2

**Position of publication:** 27

**Format:** Journal

**Corresponding author:** Yes

**Category:** Biology

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 217

- 8** Xabier Guinda; Gorka Bidegain; Araceli Puente; José Antonio Juanes. A first approach to stock assessment of the sea urchin *Paracentrotus lividus* (Lamarck, 1816) in Cantabria (Bay of Biscay). *Journal of the Marine Biological Association of the UK*. doi: 10.1017/S002531 - 97, pp. 561 - 570. Cambridge University Press, 2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No  
**Impact source:** SCOPUS **Category:** Aquatic Science  
**Impact index in year of publication:** 1.09 **Journal in the top 25%:** No  
**Position of publication:** 69 **No. of journals in the cat.:** 103
- 9** G. Bidegain; E.N. Powell; J.M. Klinck; E.E. Hofmann; T. Ben-Horin; D. Bushek; S.E. Ford; D.M. Munroe; X. Guo. Modeling the transmission of *Perkinsus marinus* in the Eastern oyster *Crassostrea virginica*. *Fisheries Research*. Elsevier, 2017. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84981343281&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes  
**Impact source:** Scopus (SJR) **Category:** Aquatic Science  
**Impact index in year of publication:** 2.2332 **Journal in the top 25%:** Yes  
**Position of publication:** 32 **No. of journals in the cat.:** 195
- 10** Tal Ben-Horin; Kevin D. Lafferty; Gorka Bidegain; Hunter S. Lenihan. Fishing diseased abalone to promote yield and conservation. *Phil. Trans. R. Soc. B*. 2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No  
**Impact source:** SCOPUS **Category:** Science Edition - BIOLOGY  
**Impact index in year of publication:** 7.224 **Journal in the top 25%:** Yes  
**Position of publication:** 6 **No. of journals in the cat.:** 86
- 11** Gorka Bidegain; Powell, E.N.; Klinck, J.M.; Ben-Horin, T.; Hofmann, E.E. Microparasitic disease dynamics in benthic suspension feeders: Infective dose, non-focal hosts, and particle diffusion. *Ecological Modelling*. 328, pp. 44 - 61. Elsevier, 2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes  
**Impact source:** Scopus (SJR) **Category:** Science Edition - ENVIRONMENTAL SCIENCES  
**Impact index in year of publication:** 2.28 **Journal in the top 25%:** Yes  
**Position of publication:** 212 **No. of journals in the cat.:** 1.370
- 12** Gorka Bidegain. A habitat suitability modeling-based approach for estimating coastal shellfish biomass. *Thalassas*. Springer, 2015.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes  
**Impact source:** SCOPUS **Category:** Science Edition - MARINE & FRESHWATER BIOLOGY  
**Impact index in year of publication:** 0.54 **Journal in the top 25%:** No  
**Position of publication:** 93 **No. of journals in the cat.:** 104

- 13** G. Bidegain; X. Guinda; M. Sestelo; J. Roca-Pardiñas; A. Puente; J.A. Juanes. Assessing the suitability of the minimum capture size and protection regimes in the gooseneck barnacle shellfishery. *Ocean and Coastal Management*. 104, pp. 150 - 158. 2015. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84918567300&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** SCOPUS **Category:** Science Edition - WATER RESOURCES  
**Impact index in year of publication:** 1.691 **Journal in the top 25%:** No  
**Position of publication:** 31 **No. of journals in the cat.:** 85
- 14** Tal Ben-Horin; Gorka Bidegain; Lauren Huey; Diego A. Narvaez; David Bushek. Parasite transmission through suspension feeding. *Journal of Invertebrate Pathology*. 2015.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No **Category:** Science Edition - ZOOLOGY  
**Impact source:** SCOPUS **Journal in the top 25%:** Yes  
**Impact index in year of publication:** 2.19 **No. of journals in the cat.:** 161  
**Position of publication:** 18
- 15** G. Bidegain; J.F. Bárcena; A. García; J.A. Juanes. Predicting coexistence and predominance patterns between the introduced Manila clam (*Ruditapes philippinarum*) and the European native clam (*Ruditapes decussatus*). *Estuarine, Coastal and Shelf Science*. 152, pp. 162 - 172. 2015. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84921303811&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** SCOPUS **Category:** Science Edition - MARINE & FRESHWATER BIOLOGY  
**Impact index in year of publication:** 2.34 **Journal in the top 25%:** Yes  
**Position of publication:** 24 **No. of journals in the cat.:** 104
- 16** Gorka Bidegain; José Antonio Juanes. Does expansion of the introduced Manila clam *Ruditapes philippinarum* cause competitive displacement of the European native clam *Ruditapes decussatus*?. *Journal of Experimental Marine Biology and Ecology*. 2013.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes **Category:** Science Edition - MARINE & FRESHWATER BIOLOGY  
**Impact source:** SCOPUS **Journal in the top 25%:** Yes  
**Impact index in year of publication:** 2.475 **No. of journals in the cat.:** 103  
**Position of publication:** 21
- 17** G. Bidegain; M. Sestelo; J. Roca-Pardiñas; J.A. Juanes. Estimating a new suitable catch size for two clam species: Implications for shellfishery management. *Ocean and Coastal Management*. 71, pp. 52 - 63. 2013. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84869879370&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** SCOPUS **Category:** Science Edition - WATER RESOURCES  
**Impact index in year of publication:** 1.769 **Journal in the top 25%:** No  
**Position of publication:** 27 **No. of journals in the cat.:** 81
- 18** Gorka Bidegain; Javier Francisco Bárcena; Andrés García; José Antonio Juanes. LARVAHS: Predicting clam larval dispersal and recruitment using habitat suitability-based particle tracking model. *Ecological Modelling*. 2013.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes

**Impact source:** Scopus (SJR)

**Impact index in year of publication:** 2.326

**Position of publication:** 202

**Category:** Science Edition - ENVIRONMENTAL SCIENCES

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 1.374

- 19** Bidegain, G. Marine back home: searching for the big wave. *Journal of Marine Animals and Their Ecology*. 6 - 1, pp. 4 - 5. (Canada): Oceanographic Environmental Research Society, Canada, 2013. Available on-line at: <[http://www.oers.ca/journal/volume6/issue1/Letter\\_Editor.pdf](http://www.oers.ca/journal/volume6/issue1/Letter_Editor.pdf)>. ISSN 1911-8929

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 1

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

- 20** J.A. Juanes; G. Bidegain; B. Echavarri-Erasun; A. Puente; A. García; A. García; J.F. Bárcena; C. Álvarez; G. García-Castillo. Differential distribution pattern of native *Ruditapes decussatus* and introduced *Ruditapes philippinarum* clam populations in the Bay of Santander (Gulf of Biscay): Considerations for fisheries management. *Ocean and Coastal Management*. 69, pp. 316 - 326. 2012. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84867235941&partnerID=MN8TOARS>>.

**Type of production:** Scientific paper

**Impact source:** SCOPUS

**Impact index in year of publication:** 1.597

**Position of publication:** 33

**Format:** Journal

**Category:** Science Edition - WATER RESOURCES

**Journal in the top 25%:** No

**No. of journals in the cat.:** 80

- 21** Ben-Horin, T.; Bidegain, G.; de Leo, G.A.; Hofmann, E.E.; McCallum, H.; Powell, E.N. Modeling and forecasting disease dynamics in the sea. *Marine Disease Ecology*. Oxford University Press. 2018.

**Type of production:** Book chapter

**Corresponding author:** No

**Format:** Book

- 22** Isabel Martinez-Silva; Marta Sestelo; Gorka Bidegain; Altea Lorenzo Arribas; Javier Roca-Pardiñas. Nonparametric regression applied to sea urchin growth. *Sea Urchins: Habitat, Embryonic Development and Importance in the Environment*. pp. 53 - 84. New York (United States of America): E. Raymond Banks, 2014. ISBN 978-1-6332-1550-4

**Type of production:** Book chapter

**Degree of contribution:** Author or co-author of chapter in book

**Corresponding author:** No

**Format:** Book

- 23** Klinck, J.M.; Bidegain, G.; Ben-Horin, T.; Aalto, E.; Lal Dutta, B. Marine disease single population models in Matlab and R. Old Dominion University. 1 - 1, pp. 1 - 4. Old Dominion University, 2015.

**Type of production:** Scientific book or monograph

**Corresponding author:** Yes

**Format:** Scientific and technical document or report

- 24** Klinck, J.M.; Bidegain, G.; Ben-Horin, T.; Aalto, E.; Lal Dutta, B. Multi-species population models. Old Dominion University. 1 - 1, pp. 1 - 12. Old Dominion University, 2015.

**Type of production:** Scientific book or monograph

**Corresponding author:** Yes

**Format:** Scientific and technical document or report

- 25** Klinck, J.M.; Bidegain, G.; Ben-Horin, T.; Aalto, E.; Lal Dutta, B. Multiple subpopulations and marine diseases. Old Dominion University. 1 - 1, pp. 1 - 8. Old Dominion University, 2015.

**Type of production:** Scientific book or monograph

**Corresponding author:** Yes

**Format:** Scientific and technical document or report



- 26** Guinda, G.; Bidegain, G.; Puente, A.; Juanes, J.A. Evaluación del stock de las poblaciones de Erizo en la costa de Cantabria. Gobierno de Cantabria. pp. 1 - 48. Gobierno de Cantabria, 2013.  
**Type of production:** Scientific-technical report      **Format:** Scientific and technical document or report  
**Corresponding author:** No
- 27** Guinda, G.; Bidegain, G.; Puente, A.; Juanes, J.A. Evaluación del stock de las poblaciones de Gelidium corneum en la costa oeste de Cantabria. Gobierno de Cantabria. pp. 1 - 48. Gobierno de Cantabria, 2012.  
**Type of production:** Scientific-technical report      **Format:** Scientific and technical document or report  
**Corresponding author:** No
- 28** Bidegain, G.; Guinda, G.; Puente, A.; Echavarri, B.; Juanes, J.A. Update of shellfish resources management models on the coast of Cantabria. Government of Cantabria. pp. 1 - 150. Department of Rural Development, Livestock, Fisheries and Biodiversity. Government of Cantabria, 2012.  
**Type of production:** Scientific-technical report      **Format:** Scientific and technical document or report  
**Corresponding author:** Yes
- 29** Bidegain, G.; Puente, A.; Juanes, J.A. Environmental Sustainability Report of Santander Port Authority. Santander Port Authority. Santander Port Authority, 2011.  
**Type of production:** Scientific-technical report      **Format:** Scientific and technical document or report  
**Corresponding author:** Yes
- 30** Puente, A.; Juanes, J.A.; Bidegain, G. Environmental effects of dredging in the Port of Santander. Santander Port Authority. Santander Port Authority, 2011.  
**Type of production:** Scientific-technical report      **Format:** Scientific and technical document or report  
**Corresponding author:** No

### Works submitted to national or international conferences

- 1** **Title of the work:** Does restoring oyster reefs restore oyster health?  
**Name of the conference:** Coastal & Estuarine Research Federation Biennial Conference  
**Corresponding author:** No  
**City of event:** Providence, RI, United States of America  
**Date of event:** 09/11/2017  
**Organising entity:** CERF  
Ben-Horin, T.; Bidegain, G.; Burge, C.; Bushek, D.; Carnegie, R.; Groner, M.; Hofmann, E.E.; Powell, E.N.; Proestou, D.; Shroer, W.
- 2** **Title of the work:** MODELING MARINE BIVALVE POPULATIONS: APPROACHES AND CHALLENGES  
**Name of the conference:** 109 National Shellfish Association Annual Meeting  
**Corresponding author:** No  
**City of event:** Knoxville, United States of America  
**Date of event:** 27/03/2017  
**Organising entity:** National Shellfish Association  
**City organizing entity:** Knoxville, United States of America  
Eileen Hofmann; Eric Powell; John Klinck; Gorka Bidegain. "Hofmann, E.E., Powell, E.N., Klinck, J.M., Bidegain, G. Modeling marine bivalve populations: Approaches and Challenges".
- 3** **Title of the work:** The influence of hydrodynamics (advection and vertical mixing) on disease transmission time in benthic metapopulations distributed among reefs  
**Name of the conference:** 109th National Shellfish Association Conference  
**Type of event:** Conference



**Corresponding author:** Yes

**City of event:** Knoxville, United States of America

**Date of event:** 03/2017

**Organising entity:** National Shellfish Association

Gorka Bidegain; John Klinck; Eric Powell; Eileen Hofmann; Julia Levin. Journal of Shellfish Research,

**4 Title of the work:** A coupled benthic-circulation model for Dermo disease in the eastern oyster *Crassostrea virginica*

**Name of the conference:** Aquaculture 2016

**Type of event:** Conference

**Corresponding author:** Yes

**City of event:** Las Vegas, United States of America

**Date of event:** 2016

**Organising entity:** World Aquaculture Society

Gorka Bidegain; John Klinck; Julia Levin; Eric Powell; Dale Haidvogel; Tal Ben-Horin; Eileen Hofmann. Journal of Shellfish Research,

**5 Title of the work:** Disease transmission by free drifting infectious particles in sessile filter feeders: a theoretical and model analysis

**Name of the conference:** Ocean Sciences Meeting

**Type of event:** Conference

**Corresponding author:** No

**City of event:** New Orleans, United States of America

**Date of event:** 2016

John Klinck; Gorka Bidegain; Eric Powell; Tal Ben-Horin; Eileen Hofmann.

**6 Title of the work:** Fishing diseased abalone to promote yield and conservation

**Name of the conference:** Aquaculture 2016

**Type of event:** Conference

**Corresponding author:** Yes

**City of event:** Las Vegas, United States of America

**Date of event:** 2016

**Organising entity:** World Aquaculture Society

Tal Ben-Horin; Gorka Bidegain; Kevin Lafferty; Hunter Lenihan. Journal of Shellfish Research,

**7 Title of the work:** Modeling within-host pathogen interactions in marine bivalves

**Name of the conference:** 14th Ecology and Evolution of Infectious Disease Meeting

**Type of event:** Conference

**Corresponding author:** No

**City of event:** Ithaca, United States of America

**Date of event:** 2016

**Organising entity:** Cornell University

Eileen Hofmann; Eric Powell; John Klinck; Gorka Bidegain.

**8 Title of the work:** Application of science to policy in the harvesting of *Paracentrotus lividus* (Lamarck, 1816)

**Name of the conference:** 50th European Marine Biology Symposium

**Type of event:** Conference

**Corresponding author:** No

**City of event:** Helgoland, Germany

**Date of event:** 2015

**Organising entity:** EMBS





Xabier Guinda; Gorka Bidegain; Araceli Puente; José Juanes.

- 9** **Title of the work:** Dilution of the oyster parasite Perkinsus marinus by commensal tunicates  
**Name of the conference:** 107th National Shellfish Association Conference  
**Type of event:** Conference  
**Corresponding author:** No  
**City of event:** Monterrey, United States of America  
**Date of event:** 2015  
**Organising entity:** National Shellfish Association  
William Schroer; Tal Ben-Horin; Gorka Bidegain; David Bushek; Eric Powell. Journal of Shellfish Research,
- 10** **Title of the work:** Epizootiological modeling of marine infectious diseases  
**Name of the conference:** 79th Mississippi Academy of Science Meeting  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Hattiesburg, United States of America  
**Date of event:** 2015  
**Organising entity:** Mississippi Academy of Science  
Gorka Bidegain; Eric Powell; John Klinck; Tal Ben-Horin; Eileen Hofmann. Journal of Mississippi Academy of Science,
- 11** **Title of the work:** Modeling overfiltration of marine pathogens  
**Name of the conference:** 79th Mississippi Academy of Science Meeting  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Hattiesburg, United States of America  
**Date of event:** 2015  
**Organising entity:** Mississippi Academy of Science  
Gorka Bidegain; Tal Ben-Horin; Eric Powell; John Klinck; David Bushek; Eileen Hofmann. Journal of Mississippi Academy of Science,
- 12** **Title of the work:** Models, reference points, and restoration: the challenge of oyster (and other marine) diseases  
**Name of the conference:** 23rd Biennial Coastal & Estuarine Research Federation (CERF) Conference  
**Type of event:** Conference  
**Corresponding author:** No  
**City of event:** Portland, United States of America  
**Date of event:** 2015  
**Organising entity:** CERF  
Eric Powell; Gorka Bidegain; Daphne Munroe; John Klinck; Eileen Hofmann.
- 13** **Title of the work:** Overfiltration of marine diseases I: experimental evidence and notes from the field  
**Name of the conference:** 107th National Shellfish Association Conference  
**Type of event:** Conference  
**Corresponding author:** No  
**City of event:** Monterrey, United States of America  
**Date of event:** 2015  
**Organising entity:** National Shellfish Association  
Tal Ben-Horin; Gorka Bidegain; Eric Powell; David Bushek. Journal of Shellfish Research,



- 14** **Title of the work:** Overfiltration of marine diseases II: compartmental models and water column simulations  
**Name of the conference:** 107th National Shellfish Association Conference  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Monterrey, United States of America  
**Date of event:** 2015  
**Organising entity:** National Shellfish Association  
Gorka Bidegain; Tal Ben-Horin; Eric Powell; John Klinck; David Bushek; Eileen Hofmann. Journal of Shellfish Research,
- 15** **Title of the work:** The effect of current flow and oyster reef characteristics on disease dilution  
**Name of the conference:** 1st Research Exchange Meeting  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Long Beach, United States of America  
**Date of event:** 2015  
**Organising entity:** University of Southern Mississippi  
Gorka Bidegain; Tal Ben-Horin; Eric Powell; John Klinck; David Bushek; Eileen Hofmann.
- 16** **Title of the work:** Marine disease transmission models and an introduction to parameter estimation  
**Name of the conference:** RCN Marine Disease Modeling and Transmission Workshop  
**Type of event:** Workshop  
**Corresponding author:** Yes  
**City of event:** Norfolk, United States of America  
**Date of event:** 2015  
**Organising entity:** Old Dominion University/University of Southern Mississippi/Rutgers University  
**Type of entity:** University  
Gorka Bidegain; Tal Ben-Horin.
- 17** **Title of the work:** A marine infectious disease model.  
**Name of the conference:** 78th Mississippi Academy of Science Meeting  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Hattiesburg, United States of America  
**Date of event:** 2014  
**Organising entity:** Mississippi Academy of Science  
Gorka Bidegain; Eric Powell; John Klinck; Eileen Hofmann. Journal of Mississippi Academy of Science,
- 18** **Title of the work:** Beyond within-host proliferation and environmental control in marine invertebrate diseases  
**Name of the conference:** 2014 Bays and Bayous Symposium  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Mobile, United States of America  
**Date of event:** 2014  
**Organising entity:** Sea Grant  
Gorka Bidegain; Tal Ben-Horin; Eilenn Hofmann; Eric Powell; John Klinck; David Bushek; Daphne Munroe; Ximing Guo; Ming Liu; Susan Ford; Dale Haidvogel; John Wilkin; Julia Levin. Journal of Mississippi Academy of Science,



- 19** **Title of the work:** Development of a theoretical basis for modeling disease processes in marine invertebrates.  
**Name of the conference:** Oceans Sciences Meeting  
**Type of event:** Conference  
**Corresponding author:** No  
**City of event:** Honolulu, Hawaii, United States of America  
**Date of event:** 2014  
**Organising entity:** AGU  
Eileen Hofmann; John Klinck; Eric Powell; David Bushek; Tal Ben-Horin; Gorka Bidegain; Daphne Munroe; Ximing Guo; Susan Ford; Dale Haidvogel; John Wilkin; Julia Levin.
- 20** **Title of the work:** The collapse of oyster fisheries and emergence of Dermo disease in Atlantic estuaries  
**Name of the conference:** 12th Ecology and Evolution of Infectious Disease Meeting  
**Type of event:** Conference  
**Corresponding author:** No  
**City of event:** Fort Collins, CO, United States of America  
**Date of event:** 2014  
**Organising entity:** EEID  
Tal Ben-Horin; David Bushek; Gorka Bidegain; Susan Ford; Ximing Guo; Daphne Munroe; Ming Liu; Eric Powell; Dale Haidvogel; John Wilkin; Julia Levin; Eileen Hofmann; John Klinck.
- 21** **Title of the work:** Ecologically relevant aspects to understand marine range shifts  
**Name of the conference:** Coastal Sciences Seminar Series  
**Type of event:** Seminar  
**Corresponding author:** Yes  
**City of event:** Ocean Springs,  
**Date of event:** 2013  
**Organising entity:** University of Southern Mississippi
- 22** **Title of the work:** Is the competitive interaction between the non indigenous bivalve *Ruditapes philippinarum* and the native bivalve *Ruditapes decussatus* a determining factor to explain the reduction of the native population?  
**Name of the conference:** XIII International Symposium on Oceanography of the Bay of Biscay  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Santander, Spain  
**Date of event:** 2012  
**Organising entity:** Centro Oceanográfico de Santander  
**Type of entity:** Public Research Body  
Gorka Bidegain; José Juanes.
- 23** **Title of the work:** Modeling dispersal and potential recruitment patterns of *Ruditapes philippinarum* and *Ruditapes decussatus* based on particle tracking, habitat suitability and larval dynamics  
**Name of the conference:** 50th Estuarine and Coastal Sciences Association (ECSA) Conference  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Venecia, Italy  
**Date of event:** 2012  
**Organising entity:** ECSA  
Gorka Bidegain; Javier F. Bárcena; Andrés García; José Juanes.



- 24** **Title of the work:** Modelling Habitat Suitability for Two Clam Species Using Ecological Niche Factor Analysis (ENFA)  
**Name of the conference:** 50th Estuarine and Coastal Sciences Association (ECSA) Conference  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Venecia, Italy  
**Date of event:** 2012  
**Organising entity:** ECSA  
Gorka Bidegain; Javier F. Bárcena; Andrés García; José Juanes.
- 25** **Title of the work:** Recruitment and growth of *Pollicipes pollicipes* on the coast of Cantabria (Gulf of Biscay, northern Spain)  
**Name of the conference:** XIII International Symposium on Oceanography of the Bay of Biscay  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Santander, Spain  
**Date of event:** 2012  
**Organising entity:** Centro Oceanográfico de Santander  
**Type of entity:** Public Research Body  
María B. Gutiérrez-Cobo; Gorka Bidegain; Ana Silio; Xabier Guinda; José Juanes.
- 26** **Title of the work:** A non parametric model for estimating an ideal size of capture for *Ruditapes decussatus* (native) and *Ruditapes philippinarum* (introduced) bivalves on the northern coast of Spain (Cantabrian Sea)  
**Name of the conference:** Symposium Estuaries and lagoons ecosystem trajectories  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Bordeaux, France  
**Date of event:** 2011  
**Organising entity:** University of Bourdeaux  
Gorka Bidegain; Marta Sestelo; Javier Roca-Pardiñas; José Juanes.
- 27** **Title of the work:** An alternative model for estimating the length-weight relationship of *Ruditapes decussatus* (native) and *Ruditapes philippinarum* (introduced) bivalves on the northern coast of Spain (Cantabrian Sea)  
**Name of the conference:** 6th Congress of European Malacological Societies.  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Vitoria, Spain  
**Date of event:** 2011  
**Organising entity:** University of the Basque Country  
Gorka Bidegain; Marta Sestelo; Javier Roca-Pardiñas; José Juanes.



## R&D management and participation in scientific committees

### Scientific, technical and/or assessment committees

- 1** **Committee title:** Development and implementation of a pan-European Marine Biodiversity Observatory System (EMBOS) - COST ACTION: SCIENCE AND TECHNOLOGY NETWORK  
**Primary (UNESCO code):** 251004 - Marine botany; 251005 - Marine zoology; 251010 - Shore and near-shore processes  
**Start-End date:** 2011 - 2015
- 2** **Committee title:** Expert Review Committee of the Intergovernmental Panel of Climate Change (IPCC)  
**Primary (UNESCO code):** 240106 - Animal ecology; 240112 - Parasitology animal; 240191 - Invertebrates not Insects; 251001 - Biological oceanography; 251092 - Oceanography: Acicultura marina  
**Affiliation entity:** Expert Review Committee of the Intergovernmental Panel of Climate Change (IPCC) **Type of entity:** International Body for assessing the science related to climate change  
**City affiliation entity:** World Meteorological Organization (WMO) and United Nations Environment Programme (UNEP),  
**Start date:** 2017
- 3** **Committee title:** Ecology of Infectious Marine Diseases Research Coordination Network  
**Primary (UNESCO code):** 240106 - Animal ecology; 320200 - Epidemiology  
**Affiliation entity:** Cornell University **Type of entity:** University  
**City affiliation entity:** Ithaca, New York, United States of America  
**Start date:** 2013

### Organization of R&D activities

- 1** **Title of the activity:** Marine Disease Modelling Workshop  
**Type of activity:** Workshop  
**Convening entity:** Old Dominion University  
**City convening entity:** Norfolk, United States of America  
**Type of participation:** Organiser  
**N° assistants:** 25  
**Start-End date:** 11/05/2015 - 15/05/2015
- 2** **Title of the activity:** Modelling marine diseases in aquaculture. Session  
**Type of activity:** Conference Session  
**Convening entity:** World Aquaculture Society  
**City convening entity:** Las Vegas, United States of America  
**Start date:** 25/02/2016



## Other achievements

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

- 1** **Entity:** Center for Coastal Physical Oceanography  
**Start-End date:** 2014 - 2016 **Duration:** 3 months - 15 days  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Training in disease modeling and development of host-pathogen system models
- 2** **Entity:** NIOZ **Type of entity:** Public Research Body  
**Faculty, institute or centre:** Royal Netherlands Institute for Sea Research  
**City of entity:** Yerseke, Zeeland, Holland  
**Start date:** 10/10/2010 **Duration:** 7 days  
**Goals of the stay:** Doctorate  
**Provable tasks:** Applied Biostatistics with R