

PERSONAL INFORMATION



WORK EXPERIENCE

- 05/05/2014–Present** **Visiting Post-Doctoral researcher**
ARC- CEED (Australia Research Council Centre of Excellence for Environmental Decisions - The School of Biological Sciences- The University of Queensland), Brisbane (Australia)
Visiting post-doctoral research academic for developing the project 'STEPS' under the supervision of Professor Hugh Possingham.
- 01/01/2014–Present** **Post-Doctoral researcher**
Foundation IKERBASQUE, Bilbao (Spain)
Awarded a 3-year post-doctoral research grant for training in research by the Ministry for Education, Linguistic Policy and Culture at the Basque Government.
- 01/06/2013–30/06/2013** **External Reviewer**
National Science Centre/ Narodowe Centrum Nauki, (Poland)
Participation as "Expert" on the Symfonia call 2013.
- 01/04/2013–30/04/2013** **FP7 call expert panel member**
European Commission (EU Commission), Brussels (Belgium)
Participation as "Expert" on the FP7 call ENV.2013.
- 01/03/2012–31/12/2013** **Post-Doctoral Researcher**
BC3- Basque Centre for Climate Change, Bilbao (Spain)
Main leader for BC3 tasks at PERSEUS FP7 project; Collaborator at CoCoNET FP7 project; Collaborator at GEF ICZM project.
- 01/10/2009–31/12/2012** **PhD Thesis Researcher**
AZTI-Tecnalia Institute of Marine Scientific Research, Pasaia (Spain)
PhD Thesis Development: Scientific research, data gathering, analysis, papers and reports writing, etc.
- 01/04/2007–31/08/2007** **Internship as a Research Assistant (Leonardo Grant)**
Oceanlab Marine Laboratory, Newbrough, Aberdeen (Scotland)
The ecosystems of the estuaries and their sediment dynamics changes due to Climate Change. Development of microcosmos experimental set-ups.
- 01/07/2005–31/07/2006** **Intern**
Environmental Studies Department- University of Tasmania, Hobart, Tasmania (Australia)

Department volunteer helping. Troposphere ozone data uptake (Brewer spectrophotometer) and the following data analysis.

01/08/2004–31/08/2004

Intern

FAUNIA (Natural Theme Park), Madrid (Spain)

Animal care, feeding, guided tours, etc.

EDUCATION AND TRAINING

01/10/2009–05/02/2013

PhD in Biology

EQF level 8

University of the Basque Country, Bilbao (Spain)

“Ecosystem-based Marine Spatial Management in the Basque Country: linking human activities, biodiversity valuation and ecosystem services in supporting European Directives implementation”. Department of Zoology and Animal Cell Biology. Supervisor: Dr. Ángel Borja Yerro. Grade APTO CUM LAUDE

01/10/2007–01/10/2009

MSc in Marine Environment and Resources (MER)

EQF level 7

University of the Basque Country (SPAIN); University of Southampton (UK); University of Bourdeaux (FRANCE), Bilbao (Spain)

MSc Thesis entitled: 'Stress on Gelidium comeum's fonds: A case study of Bleaching and Breakage in the Coast of Bizkaia' Grade 9.9/10

01/09/2006–30/09/2006

Certificate of Pedagogic Aptitude (CAP)

EQF level 6

University of Navarra, Pamplona (Spain)

Constitution of the capacities and own competitions of the educational expert. In particular, in a marked educational stage by big personal transitions and in a period with significant changes, the curriculum of this cycle promotes a professional perspective that enables to address the attention to the diversity, guarantees the didactic update and prepare for the articulation of new methodologies and half of learning.

To generate an authentic educational situation. In the classroom, the professors in prospectiva study and resolve the problems of the students that cursan his disciplines of his area of knowledge. The design of both cycles allows the interrelationship of the theory and the practice.

01/07/2005–31/07/2006

Bachelor in Sciences

EQF level 6

University of Tasmania (UTAs), Hobart, Tasmania (Australia)

Internship with an Exchange Grant of the International Relations Office of the University Complutense of Madrid

01/10/2000–30/05/2006

Bachelor in Biological Sciences

EQF level 7

University Complutense of Madrid, Madrid (Spain)

Biological Sciences knowledge. Specialized in Ecological Sciences.

PERSONAL SKILLS

Mother tongue(s)

Basque, Spanish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

	Proficiency Certificate of English				
German	A2	A2	A2	A2	A2
Chinese	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Communication skills

All of my stays at the University of Tasmania in Australia; at the Oceanlab in Scotland, at the University of Southampton in the UK; at the University of Ghent in Belgium; at the University of Hull in the UK; at the ARC-CEED of the University of Queensland in Australia, etc. have given me all the social and communication skills, attitudes and knowledge that have helped me developing my research career so far. Being (twice) chairperson at the conferences that I have attended as well as presenting my research at various international conferences worldwide have also improved my communication skills when addressing the wider public.

Organisational / managerial skills

I have been a reviewer for Journal of Environmental Management, Ecological Economics, Ecological Processes, Journal of Sea Research, Ocean & Coastal Management and Ecosystem Services journal.
 Being part of an Advisory Experts Panel for the FP7 projects at the EU Commission and for the Symfonia grant of the National Science Centre of Poland, has allowed me to further develop my knowledge in European proposals writing and funding requirements.
 Participating in many EU proposals as WP or task leader has allowed me to develop my managerial skills.

Job-related skills

Good collaboration skills. Hability and willingness to work in multi-disciplinar environments. Good capacity for mentoring and supervision.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

Advanced and intermediate level of computer knowledge in Office, Powerpoint, Databases management; Geographic Information Systems (ArcGIS; Idrisi Kilimanjaro, QuantumGIS, GVSIG); Statistical Analysis (univariate and multivariate); Software for Biological Analysis (Statgraphics, Statistica, Surfer, PRIMER, R); Remote Sensing analysis software (BILKO, BEAM); Interactions models simulations (Vensim; hunt-prey; climatic; environmental, etc.); Starting in Bayesian modelling (Genie, Bayesia) and Artificial Intelligence for Ecosystem Services modelling (ARIES, Thinklab, Thinkcap); Marxan user; Content Curator Knowledge; Biological Valuation Teacher; Spatial Multicriteria Analysis (SMCA); R for applications to microarray and next generation sequencing data analysis.

Other skills

First Aid
 1 Year of Volunteering at 'Engineering Without Frontiers' NGO
 Cooking National and International Dishes
 Piano degree
 Flute degree

Driving licence

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ADDITIONAL INFORMATION

Conferences

Orals:

"Marine Biological Valuation Map within the Basque Country: A classification method within the scope of the Water Framework Directive". ECSA45 Symposium Conference: "Estuarine Goods and Services" (29th August to 4th September 2009. Trinity College, Dublin. Ireland)

"What are the costs and benefits of the environmental improvement of a highly polluted estuary?" ECSA47 Symposium Conference (14-19th September 2010, Figueira da Foz, Portugal)

"Valuation of Marine Goods and Services at the Basque Country inside a Marine Spatial Planning Framework" RiMER- Research in Marine Environment and Resources Master (February, 2011 & 2012, Aquarium San Sebastián, Spain)

"Marine biological valuation mapping of the Basque continental shelf (Bay of Biscay), within the context of marine spatial planning". World Conference on Marine Biodiversity (WCMB11) (26-30th September 2011, Aberdeen, Scotland)

"Ecosystem Services and societal benefits provided by the marine environment in the Basque Country: Mapping supply, demand and flows" ECSA50 Symposium Conference (03-07th June 2012, Venice, Italy)

"Marine biodiversity valuation in the Basque coast (Bay of Biscay): Using tools in marine spatial planning and the European marine strategy framework directive" ECOSUMMIT2012 International Conference (30th September-5th October 2012, Columbus, Ohio, USA)

"What is a PhD? What is a Doctor?" Inside the BC3 Training Caravan initiative. Visited 2 secondary schools: Eskolapioak (Tolosa, Spain); Axular Liceoa (San Sebastián, Spain) (26 February 2013)

"Ecosystem-based Marine Spatial Management in the Basque Country: linking human activities, biodiversity valuation and ecosystem services in supporting European Directives implementation" Seminar at the University of Rovira i Virgili Department of Economy (15 May 2013. Reus, Spain)

"Comparison of the socioeconomic impacts of Mediterranean and Black Sea Marine Protected Areas: evidence, gaps and ways forward" CIESM 40th Congress (28th October-1st November 2013, Marseille, France)

"Europa Hegoaldeko itsas ekosistema konplexuak kudeatzeko politika egokituena bila: PERSEUS proiektuaren helburua" Natur Zientzien Topaketa, UPV/EHU (9-10 November 2013. San Sebastian, Spain)

"Artisanal fisheries and Marine Spatial Planning: A characterization of their Total Fishing Pressure at the Basque Country (Bay of Biscay)" EC Workshop on Marine Spatial Planning (15 November 2013. Vilnius, Lithuania)

"What is a PhD? What is a Doctor?" Inside the BC3 Training Caravan initiative. Visited 1 secondary school: Ballonti BHI (Bilbao, Spain) (29 January 2014)

"STEPS": A Decision Support System Tool for an integrated Marine Spatial Planning. Internal Seminars (26th June 2014, Queensland University, Faculty of Sciences, Marine Spatial Lab, Brisbane, Australia)

"STEPS": A Decision Support System Tool for an integrated Marine Spatial Planning. Co-joint seminar between the University of Queensland and the CSIRO (1st August 2014, CSIRO Ecoscience Precinct, Brisbane, Australia)

"STEPS": A Decision Support System Tool for an integrated Marine Spatial Planning. Griffith University, Nathan Campus (22 August 2014, Australian Rivers Institute, Brisbane, Australia)

"Value and Environmental Cost of Transferring Energy and Communications within the Mediterranean and Black Sea" 2nd International Ocean Research Conference (17-21 November 2014. Barcelona, Spain)

"Developing adaptive policies through stakeholder involvement to achieve GES of Southern European Seas" 2nd International Ocean Research Conference (17-21 November 2014. Barcelona, Spain). Co-Author.

"Biodiversity and Ecosystem Services: Meta-analysis, mind-mapping and Bayesian belief network modelling to better capture the role of biodiversity on ecosystem service". Internal Seminar of the ES-group at the ARC- CEED (Australia Research Council Centre of Excellence for Environmental Decisions, University of Queensland, Brisbane, Australia) (14 April 2015. University of Queensland, Brisbane, Australia).

POSTERS:

- "Stress on *Gelidium comeum*'s fronds: A case study of Bleaching and Breakage in the Coast of Bizkaia" XVII Simpósio de Botânica Criptogâmica (23-26 September 2009, Tomar, Portugal)
- "Valuation of Marine Goods and Services at the Basque Country inside a Marine Spatial Planning Framework" CROSS-BORDER DOCTORALES UPV/EHU AND UPPA (UPV/EHU & University of Pau (France) (17-21 October 2011, Anglet-Angelu, France)
- "Valoración de la biodiversidad y mapeado de servicios ecosistémicos en la costa vasca: análisis y comparativa" IV Congreso de Biodiversidad (6-8 February 2013, Bilbao, Spain)
- "Comparison of the socioeconomic impacts of Mediterranean and Black Sea Marine Protected Areas: evidence, gaps and ways forward" CIESM 40th Congress (28th October-1st November 2013, Marseille, France)
- "Total fishing pressure produced by artisanal fisheries, from a Marine Spatial Planning perspective: A case study from the Basque Country (Bay of Biscay)" IIFET 2014 Australia conference: Towards Ecosystem Based Management of Fisheries: What Role can Economics Play" (7- 11 July 2014, Queensland University of Technology, Brisbane, Australia)

- Courses**
- Geographic Information Systems (Idrisi Kilimanjaro, QuantumGIS, GVSIG) Courses
 - Software for Biological Analysis (Statgraphics, Statistica, Surfer, PRIMER) Courses
 - Remote Sensing analysis software (BILKO, BEAM)
 - Interactions models simulations (Vensim; hunt-prey; climatic; environmental, etc.)
 - Artificial Intelligence for Ecosystem Services modelling (ARIES, Thinklab, Thinkcap) course
 - Marxan Course
 - Content Curator Knowledge Course
 - Spatial Multicriteria Analysis (SMCA) Course
 - R for applications to microarray and next generation sequencing data analysis Course

- Projects**
- MESMA:** *Monitoring and Evaluation of Spatially Managed Areas*. FP7-OCEAN-2009. 48 months, starting January 2009.
- BIZKAIZET:** *Catalogación de las áreas de especial interés para la conservación de los cetáceos en el golfo de Bizkaia*. Gobierno Vasco; Dirección de Pesca y Acuicultura; Dpto. de Medio Ambiente, Planificación Territorial, Agricultura y Pesca. 12 months, starting December 2010.
- PERSEUS:** *Policy-oriented marine Environmental Research for the Southern European Seas*. FP7-OCEAN- 2011-3. 48 months, starting January 2012.
- CoCoNET:** *Towards COast to COast NETWORKS of marine protected areas (from the shore to the high and deep sea), coupled with sea-based wind energy potential*. FP7-OCEAN-2011. 48 months, starting January 2012.
- GEF project:** *Integration of climatic variability and change into national strategies to implement the ICZM Protocol in the Mediterranean (the Climate Variability (ClimVar Project))*, starting June 2013.
- DG-MARE Call for Tenders No MARE/2013/11:** *Assistance Mechanism for the Atlantic Action Plan* – Proposal for being the Focal Point in Spain accepted and now working on acceptance paper-works. Estimated value excluding VAT: 1200000 EUR. Duration 18 month, starting June 2014.

- Publications**
- Pascual M.**, Borja A., Vanden Eede S., Deneudt K., Vincx M., Galparsoro I., Legorburu I. (2011) Marine biological valuation mapping of the Basque continental shelf (Bay of Biscay), within the context of marine spatial planning. *Estuarine, Coastal and Shelf Science* 95: 186-198
- Borja A., Galparsoro I., Irigoien X., Iriondo A., Menchaca I., Muxika I., **Pascual M.**, Quincoces I., Revilla M., Rodríguez J.G., Santurtún M., Solaun O., Uriarte A., Valencia V., Zorita I. (2011) Implementation of the European Marine Strategy Framework Directive: A methodological approach for the assessment of environmental status, from the Basque Country (Bay of Biscay). *Marine Pollution Bulletin* 62: 889-904
- Pascual M.**, Borja A., Franco J., Burdon D., Atkins JP., Elliott M. (2012) What are the costs and benefits of biodiversity recovery in a highly polluted estuary? *Water Research* 46 (1): 205-217

Galparsoro I., Borja A., Rodríguez J.G., Muxika I., **Pascual M.**, Legorburu I. (2012) Chapter 35: Rocky reef and sedimentary habitats within the continental shelf of the southeastern Bay of Biscay. In: P. Harris and E.K. Baker (Eds.), *Insights into Seafloor Geomorphology as Benthic Habitat: GeoHAB Atlas of Seafloor Geomorphic Features and Benthic Habitats*. Elsevier.

Salomidi M., Katsanevakis S., Borja A., Braeckmen U., Damalas D., Galparsoro I., Mifsud R., Mirto S., **Pascual M.**, Pipitone C., Rabaut M., Todorova V., Vassilopoulou V., Fernández TV. (2012) Assessment of goods and services, vulnerability, and conservation status of European seabed biotopes: a stepping stone towards ecosystem-based marine spatial management. *Mediterranean Marine Science Journal* 13(1): 49-88

Pascual M., Borja A., Galparsoro I., Ruiz J., Mugerza E., Quincoces I., Murillas A., Arregi L. (2013) Total Fishing Pressure produced by artisanal fisheries, from a Marine Spatial Planning perspective: A case study from the Basque Country (Bay of Biscay). *Fisheries Research*, 147: 240-252.

Galparsoro I., Borja A., Kostylev V., Rodríguez G., **Pascual M.**, Muxika I. (2013) A process-driven sedimentary habitat modelling approach, explaining seafloor integrity and biodiversity assessment within the European Marine Strategy Framework Directive. *Estuarine, Coastal and Shelf Science* 131: 194-205.

Zorita I., Solaun O., Borja A., Franco J., Muxika I., **Pascual M.** (2013) Spatial distribution and temporal trends (1989-2008) of soft-bottom marine benthic alien species in the Nervión estuary (southern Bay of Biscay). *Journal of Sea Research*, 83: 104–110.

Markandya A., **Pascual M.** (2014). Chapter 16: The Valuation of Ecosystem Services and their role in decision-making: constraints and ways forward. In: P.A.L.D. Nunes; P. Kumar and T. Dedeurwaerdere. (Eds.) *Handbook on the Economics of Ecosystem Services and Biodiversity*. Edward Elgar. UK, ISBN-13: 9781781951507 (278-301pp).

Garmendia M., Boteler B., Breil M., Gileva E., Kontogianni D., Koulouvaris E., Krüger I., Le Tellier D., March D., Markandya A., Ojea E., **Pascual M.**, Roeleveld G., Ronco P., Saravanou S., Sauzade D., Shivarov A., Skourtos M. (2014). *A new Adaptive Marine Policy Toolbox to support Ecosystem-Based Approach to management*. BC3 Policy Briefing Series 05, 2014. Basque Centre for Climate Change (BC3), Bilbao, Spain.

Pascual M. (2014) When Did We Start Talking About Blue Growth In Europe? Why? *Journal of Coastal Development* 17(2): e107. doi: 10.4303/1410-5217.1000e107

Borja A., Murillas A., **Pascual M.**, Uyarra MC. (2015). Chapter 2: Marine and coastal ecosystems: delivery of goods and services, through conservation. In Chicharo L., Mueller F., Fohre N., (Eds.). *Ecosystem Services and river Basin Ecohydrology*. Springer. ISBN 978-94-017-9845-7 (341pp).

Certifications	Emergency and First aid Certificate
	Maritime Personal Safety Certificate
	Maritime Personal Survival Techniques Certificate
	Open Water Diver Certificate