

Part A. PERSONAL INFORMATION		CV date		07/01/2022
First and Family name	Celia Olabarria Uzquiano			
Social Security, Passport, ID number	30596652M	Age	55	
Researcher numbers	Researcher ID	R-8555-2018		
	Orcid code	0000-0001-8332-5924		

A.1. Current position

Name of University/Institution	Universidade de Vigo		
Department	Ecología e Biología Animal		
Address and Country	Facultade de Ciencias Experimentales, Campus Lagoas-Marcosende, 36310 Vigo, Spain		
Phone number	+34 986812589	E-mail	colabarria@uvigo.es
Current position	Tenured Lecturer at University	From	2012
Espec. cód. UNESCO	240106, 240110, 240119, 241705, 241713, 251001		
Palabras clave	Experimental ecology, ecosystem functioning, climate change, biodiversity, invasions, coastal ecosystems, shellfish biology		

A.2. Education

PhD	University	Year
PhD in Biological Sciences	Universidade de Santiago de Compostela	1996

A.3. JCR articles, h Index, thesis supervised...

Assessment of Research activity (Sexenios)

- 1st Section positive period 1994-2002
- 2nd Section positive period 2003-2008
- 3rd Section positive period 2009-2014.
- 4nd Section positive period 2015-2020

PhD Theses supervised in the last 10 years: 4 (1 PhD Thesis supervised every 2.5 years) and **1 ongoing** Theses (due date 2022).

Number of scientific papers in JCR: 92

- h-index: Web of Science: 24; Scopus: 27; Google Scholar: 30; ResearchGate Score: 36.35.
- Total Citations: WoS = 1440
- Citations average in 5 years (WoS): 288
- Scientific papers in Q1: 56 (Environment/Ecology: Oecologia, Oikos, Biological Invasions, Ecosystems, Journal of Applied Ecology, PloS One PLOS Biology; Science of Total Environment; Plant/Sciences: Journal of Phycology, Oceanography: Marine Ecology Progress Series).

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Celia Olabarria completed her doctorate on taxonomy and spatial distribution of molluscs at the University of Santiago de Compostela in 1996. Subsequently, she made several postdoctoral stays in various foreign universities, interacting and participating in teams. During her postdoctoral stays in Mexico (cooperation program, from August 1997 to August 1999), Australia (from September 1999 to December 2001) and the United Kingdom (MARIE CURIE Fellowship, from March 2002 to March 2004) her research focused on the study of distribution patterns of marine organisms at different scales and in different types of habitats and the experimental evaluation, both in the laboratory and in the field, of the biotic and/ or abiotic processes driving such patterns. Specifically, during her stay at the University of Sydney, she acquired important skills in experimental design and in the handling of complex statistical analyses. She is currently Full Professor at the University of Vigo in the Department of Ecology and Animal Biology (waiting for signing the new position). Her scientific interests are focused

on biological invasions, ecosystem functioning and species interactions in coastal ecosystems under a climate change scenario.

She has participated as a participating researcher or principal researcher in various proposals funded by national administrations (MEC, MICINN, Xunta de Galicia), European (Marie Curie Fellowship within the Improving Human Research Potential and the Socio-Economic Knowledge Program, EASME) and international institutions (CONABIO, CONACYT in Mexico). As a result of her research career, she has published more than 85 articles in international peer-reviewed journals, she has 5 contributions in book chapters, and she has also participated in various oral presentations at national and international conferences. She has supervised or co-supervised 5 PhD students, and is currently supervising 1 PhD students who work in diverse themes related to impacts of climate change on biological invasions and shellfish resources. She has also directed 7 Master Theses and more than 10 Honours Theses. She currently teaches in various courses of Biology and Marine Sciences and in several Master courses and has participated in diverse International Cooperation programmes with Cabo Verde and China (ERASMUS + Researchers and Lecturers). She has participated in various scientific committees and organizers of national and international conferences, and as a reviewer of different international journals.

Part C. RELEVANT MERITS

C.1. Publications (including books)

- Castro-Olivares, A., Des, M., **Olabarria, C.**, deCastro, M., Vázquez, E., Sousa, M.C., Gómez-Gesteira, M. 2022. Does global warming threaten small-scale bivalve fisheries in NW Spain? *Marine Environmental Research* 180: 105707.
- Román, S., Vázquez, E., Román, M., Viejo, R.M., Woodin, S.A., Wetthey, D.S., Troncoso, J.S., **Olabarria, C.** (2022). Effects of warming on biological interactions between clams and the seagrass *Zostera noltei*: a case study using open top chambers. *Estuarine, Coastal and Shelf Science* 276: 108027.
- Román, M. de los Santos, C.B., Román, S., Santos, R., Troncoso, J.S., Vázquez, E., **Olabarria, C.** 2022. Loss of surficial sedimentary carbon stocks in seagrass meadows subjected to intensive clam harvesting. *Marine Environmental Research* 175: 1055701.
- Herrera, M., Tubío, A., Pita, P., Vázquez, E. **Olabarria, C.**, Duarte, C.M., Villsante, S. Trade-offs and synergies between seagrass ecosystems and fishing activities: a global literature review. *Frontiers in Marine Science* 9: 781713.
- Blanco, A., Beger, M., **Olabarria, C.** 2021. Estimating benthic trophic levels to assess the effectiveness of marine protected area management. *Science of the Total Environment* 790:148234.
- Domínguez, R., **Olabarria, C.**, Woodin, S.A., Wetthey, D.S., Peteiro, L.G., Macho, G., Vázquez, E. 2021a. Contrasting responsiveness of four ecologically and economically important bivalves to simulated heat waves. *Marine Environmental Research*, 164: 105229.
- Domínguez, R., Vázquez, E., Smallegange, I.M., Woodin, S.A., Wetthey, D.S., Peteiro, L.G., **Olabarria, C.** 2021b. Predation risk increases in estuarine bivalves stressed by low salinity. *Marine Biology*, 168, 132.
- Montes, A., Vázquez, E., Peteiro, L.G., **Olabarria, C.** 2021. Dynamics and processes influencing recruitment of the invasive mussel *Xenostrobus securis* and the coexisting indigenous *Mytilus galloprovincialis* in north-western Spain. *Aquatic Invasions* 16(3): 391-414.
- Montes, A., **Olabarria, C.**, Vázquez, E. 2020. Reproductive plasticity in the invasive black-pygmy mussel *Xenostrobus securis* in northwestern Spain. *Journal of Sea Research* 159:101893.
- Blanco, A., Neto, J.M., Troncoso, J.S., Lemos, M.F.L., **Olabarria, C.** 2020. Effectiveness of two western Iberian Peninsula Marine Protected Areas in reducing the risk of macroalgae invasion. *Ecological Indicators*, 108: 105705.

- Domínguez, R., Vázquez, E., Woodin, S.A., Wethey, D.S., Peteiro, L.G., Macho, G., **Olabarria, C.** 2020. Sublethal responses of four commercially important bivalves to low salinity. *Ecological Indicators* 111: 106031.
- Román, M., Román, S., Vázquez, E., Troncoso, J.S., **Olabarria, C.** 2020. Heat waves during low tide are critical for the physiological performance of intertidal macroalgae under global warming scenarios. *Scientific Reports* 10:21408
- Montes, A., Lorenzo-Abalde, S., González-Fernández, A., Vázquez, E., **Olabarria, C.** 2018. Use of monoclonal antibody-based assay for the early detection of an invasive bivalve in plankton samples. *Marine Pollution Bulletin*, 133: 320-327.
- Peteiro, L.G., Woodin, S.A., Wethey, D.A., Costas-Costas, D., Martínez-Casal, A., **Olabarria, C.**, Vázquez, E. 2018. Responses to salinity stress in bivalves: Evidence of ontogenetic changes in energetic physiology of *Cerastoderma edule*. *Scientific Reports*; 8(1):8329.
- Strain, B., **Olabarria, C.**, Mayer-Pinto, M., Cumbo, V., Morris, R.L., Bugnot, A.B., Dafforn, K.A., Heery, E., Firth, L.B., Brooks, P., Bishop, M. J.2017. Eco-engineering urban infrastructure for marine and coastal biodiversity: which interventions have the greatest ecological benefit?. *Journal of Applied Ecology*, 55: 426-441.
- Wernberg, T., Arenas, F., **Olabarria, C.**, Thomsen, M.S., Mohring, M. 2016. Threats to ecosystem engineering macrophytes: climate change. En: *Marine macrophytes as ecosystem engineers* (ed. Ólafsson, E.). Science Publisher in the USA: 201-218.
- Olabarria, C.**, Gestoso, I., Lima, F.P., Vázquez, E., Comeau, L., Gomes, F., Seabra, R., Babarro, J. 2016. Response of two mytilids to a heat wave: the complex interplay of physiology, behaviour and ecological interactions. *PLOS One*, 11: e0164330.
- Vaz-Pinto, **Olabarria, C.**, Arenas, F. 2014. Ecosystem functioning impacts of the invasive seaweed *Sargassum muticum* (Phaeophyta). *Journal of Phycology*, 50: 108-116.
- Vaz-Pinto, F., **Olabarria, C.**, Gestoso, I., Cacabelos, E., Incera, M., Arenas, F. 2013. Functional diversity and climate change: effects on the invasibility of macroalgal assemblages. *Biological Invasions* 15: 1833-1846.

C.2. Research projects and grants

1. Ayudas para la consolidación y estructuración de unidades de investigación competitivas y otras acciones de fomento en las universidades del Sistema universitario de Galicia, en los organismos públicos de investigación de Galicia y en otras entidades del Sistema gallego de I+D+i. Xunta de Galicia (ED431C 2021/42); (2021-2024) (400.000 Euros). Principal Researcher: **Celia Olabarria**.
2. Mejora de la gestión, seguimiento, y mantenimiento de la biodiversidad en áreas marinas protegidas mediante técnicas geoespaciales automatizadas de bajo coste para la monitorización y cartografiado de hábitats intermareales (ALGANAT2000); Fundación Biodiversidad, cofinanciado por el Fondo Europeo Marítimo y de Pesca (FEMP), a través del Programa Pleamar, convocatoria 2018 (Febrero 2019-febrero 2020) (193.618,81 Euros). Principal Researcher: **Celia Olabarria**.
2. Comprendiendo el papel de las praderas de *Zostera* en el mantenimiento de las poblaciones de especies de marisco comerciales en un contexto de cambio climático (ZEUS), MICINN, Proposal N° RTI2018-095583-B-I00; (Enero 2019- Diciembre 2022) (211.750,00 Euros). Principal Researcher: **Celia Olabarria** y Elsa Vázquez.
3. Algae-to-MARket Lab IdeAs - Adding value to marine invasive seaweeds of the Iberian northwest (AMALIA). Blue labs: innovative solutions for maritime challenges. Proposal N° EASME/EMFF/2016/1.2.1.4/016; (Febrero 2017-2019) (69.703,00 Euros). Investigador Principal: Marco Lemos (Instituto Politécnico de Leiria-Portugal). Principal Researcher workpackage II: **Celia Olabarria**.

C.3. Contracts

1. ANFACO-CECOPESCA. Propagación e cultivo de dúas algas vermellas de importancia comercial en Galicia (julio 2021-noviembre 2022) (46.000 Euros). Principal Researcher: **Celia Olabarria**.

C.4. Patents

C.5. Stays abroad

1. Environmental Sciences, Fisheries and Oceans Canada, Institut Maurice-Lamontagne (Mont-Joli, Canadá), 2007 (1 month), type: visiting researcher.
2. Universidad Nacional Autónoma de México, Estación de Mazatlán (Mazatlán, México), 2004 and 2005 (two months per year, total; 4 months), type: visiting researcher.
3. Southampton Oceanography Centre, Empress Dock, SO14 3ZH (Southampton, UK), 2002-2004 (22.5 months). Type: Postdoctoral Fellowship.
4. Centre for Ecological Impacts of Coastal Cities, Marine Ecology Laboratories, University of Sydney, (Sydney, Australia), 1999-2001 (28 months), type: Postdoctoral Fellowship.
5. Facultad de Ciencias del Mar, Universidad de Sinaloa (Mazatlán, México), 1997-1999 (24 months), type: Researcher within a cooperative programme between AECI-Mexico.

C. 6. Supervision PhD Theses

1. **Fátima Vaz-Pinto**. Invasive marine macroalgae- understanding community invasibility, invasion process, and their ecological role in the ecosystem functioning. University of Porto (February, 2012). Supervisors: Francisco Arenas y **Celia Olabarria**. As a results of her PhD she published 5 papers. She currently works as teacher in Secondary Shool.
2. **Ignacio Gestoso García**. The invasion process of the non-indigenous mussel *Xenostrobus securis* (Lamarck, 1819): spread, impacts and the role of climate change. Universidade de Vigo, (September 2014). Supervisors: **Celia Olabarria** y Francisco Arenas. As a result of his PhD he published 5 papers. He currently holds a position as Postdoctoral Fellow at the IMAR (MARE, Madeira, <http://nutelapat.wixsite.com/canningclode>).
3. **Agar Montes Vilanova**. Determinig the potential for dispersal of the invasive mussel *Xenostrobus securis* Lamarck, (1919) in the Ría de Vigo (Galicia, NW Iberian Peninsula): pre- and post-settlement factors. Universidade de Vigo (July, 2020). Supervisors: **Celia Olabarria** and Elsa Vázquez. Papers derived from her PhD are listed in section C1. She currently holds a position as teacher in Secondary Shool.
4. **Rula Domínguez Fernández**. Assessment of risks produced by extreme events on commercially important bivalves. Universidade de Vigo (October, 2021). Supervisors: Elsa Vázquez and **Celia Olabarria**. Papers derived from her PhD are listed in section C1. She is currently looking for job opportunities and applying for postdoctoral positions.

C.7. Experience in organizing I+D activities

Courses organization:

1. Quantitative Marine Ecology. Statistical course held at the University of Vigo. Teaching researchers: Tony Underwood and Gee Chapman, University of Sydney (june 2008). Organizers: Juan Moreira and **Celia Olabarria**.
2. Modeling dynamics of populations in a changing world. Statistical course using R software held at the University of Vigo. Teaching researchers: Prof. David Wethey (University of South Carolina, (september-october 2018). Organizers: Elsa Vázquez and **Celia Olabarria**.

C.8. Experience in teaching abroad

1. Experimental design and impacts in ecosystems. Programme for training in coastal systems (1-12 July 2013). University of Cabo Verde.
2. Biological invasions. ERASMUS+ (14-19 May 2018). Ocean University of China (Qingdao).

C.9. Editor of books

1. García-Estévez, J.M., **Olabarria, C.**, Pérez S., Rolán-Álvarez, E., Rosón, G. 2011. Métodos y técnicas de investigación Marina. Editorial Tecnos (Grupo Anaya S.A.). ISBN 978-84-309-5208-3

C.10. Scientific divulgation

Olabarria, C., Vázquez, E. (2018). Las invasiones marinas: un elemento importante de cambio global. In: Hernández-Zanuy A. C. (Ed.). Adaptación basada en Ecosistemas: alternativa para la gestión sostenible de los recursos marinos y costeros del Caribe. Red CYTED 410RT0396. (E. Book). Editorial Instituto de Oceanología, La Habana, pp. 60-81. ISBN: 978-959-298-043-3.

C.11. Institutional responsibilities

1. Secretary to the Department of Ecology and Animal Biology: june 2014-june 2017.
2. Head to the Department of Ecology and Animal Biology: june 2017-october 2020.