

CURRICULUM VITAE **Juan Bueno Pardo, PhD**



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Birth date: 17th January 1983

EDUCATION

- February 2014: **PhD in Biology**. Spanish Institute of Oceanography. University of Oviedo (Asturias, Spain). Mention of excellence *Cum Laude* and Mention of European Doctor. Title: “*The theoretical scope of Metabolic Ecology*”. Supervisor: Dr Ángel López-Urrutia.
- 2007-2009: **Diploma of Advanced Studies (Master)**. “Biology Applied to the Sustainability of Natural Resources”. University of Oviedo (Spain).
- 2007-2008: **Certificate of Pedagogical Aptitude**. University of Oviedo (Spain).
- 2001-2006: **Bachelor of Biology**. University of Oviedo (Spain).
- 1995-2005: Saxophone, professional degree. Music conservatory of Gijón (Spain).

WORK EXPERIENCE

- September 2019 – Present: **Junior Researcher** at the Center of Marine Sciences (CCMAR), Faro, Portugal. Climate change and Portuguese fisheries.
- November 2017 – May 2019: **Postdoc** at the French Institute for the Exploitation of the Sea (IFREMER) (Brest, France). Dynamic Energy Budget and IBM modelling on pelagic fish populations. Supervisors: Martin Huret and Pierre Petitgas.
- July 2014 – December 2016: **Postdoc** at the Centre for Environmental and Marine Studies (CESAM) & University of Aveiro (Aveiro, Portugal). Ecological modeling using R, and Ecolpath. Supervisor: Henrique Queiroga.
- April – July 2014: **Postdoc** at the Southafrican Institute of Aquatic Biodiversity (Grahamstown, Republic of South Africa). Ecological modeling (Individual Based Models on mussels using R) and shore field work related to mussel sampling.
- March 2013 – December 2013: **Laboratory technician** at Spanish Institute of Oceanography. Ecological oceanography. MALASPINA2010 project: plankton samples analysis, statistical analysis of data using R.
- 2008 - 2012: **PhD fellowship** at the Spanish Institute of Oceanography – Oceanographic Center of Gijón. Supervisor: Dr Ángel López-Urrutia.
- 2006 – 2008: **Field guide** at the Natural Reserve Ría de Villaviciosa in Asturias (Spain). Sigma, S.L.

PEER-REVIEW PUBLICATIONS

- **Bueno-Pardo, J.**; Pierce, G. J.; Cabecinha, E.; Grilo, C.; Assis, J.; Valavanis, V.; Pita, C.; Dubert, J.; Leitão, F.; Queiroga, H. (2020) Trends and drivers of marine fish landings in Portugal since its entrance in the European. *ICES Journal of Marine Science*. <https://doi.org/10.1093/icesjms/fsaa010>
- **Bueno-Pardo, J.**; Petitgas, P.; Kay, S.; Huret, M. (2019) Integration of bioenergetics in an Individual Based Model to hindcast anchovy dynamics in the Bay of Biscay. *ICES Journal of Marine Science*. <https://doi.org/10.1093/icesjms/fsz239>
- Rey, F.; Neto, G.; **Bueno-Pardo, J.**; Bispo, R.; Calado, R. (2019) Supply and larval traits at metamorphosis of a costal marine invertebrate with a biphasic life cycle under contrasting oceanographic conditions. *Progress in Oceanography*, **178**: 102201.
- **Bueno-Pardo, J.**; García-Seoane, E.; Sousa, A.I.; Coelho, J.P.; Morgado, M.; Frankenbach, S.; Ezequiel, J.; Vaz, N.; Quintino, V.; Rodrigues, A.; Leandro, S.; Luis, A.; Serôdio, J.; Cunha, M.R.; Calado, A.; Lillebø, A.I.; Rebelo, J.E.; Queiroga, H. (2018) *Trophic web structure and ecosystem attributes of a temperate coastal lagoon (Ria de Aveiro, Portugal)*. *Ecological Modelling*, **378**: 13-25.
- Gomes, I.; Peteiro, L.; **Bueno-Pardo, J.**; Albuquerque, R.; Pérez-Jorge, S.; Oliveira, E.R.; Alves, F.L.; Queiroga, H. (2018) *What's a picture really worth? On the use of drone aerial imagery to estimate intertidal rocky shore mussel demographic parameters*. *Estuarine, Coastal and Shelf Science*, **213**: 185-198.
- Gomes, I.; Pérez-Jorge, S.; Peteiro, L.; Andrade, J.; **Bueno-Pardo, J.**; Quintino, V.; Rodrigues, A.M.; Azevedo, M.; Vanreusel, A.; Queiroga, H.; Deneudt, K. (2018) *Marine biological value along the Portuguese continental shelf; insights into current conservation and management tools*. *Ecological Indicators*, **93**: 533-546.
- **Bueno-Pardo, J.**; Ramalho, S. P.; García-Alegre, A.; Morgado, M.; Vieira, R. P.; Cunha, M. R.; Queiroga, H. (2017) *Deep-sea crustacean trawling fisheries in Portugal: quantification of effort and assessment of landings per unit effort using a Vessel Monitoring System (VMS)*. *Scientific Reports*, **7**, 40795.
- Ramalho, S. P.; Lins, L.; **Bueno-Pardo, J.**; Cordova, E.; Amisi, J.; Lampadariou, N.; Vanreusel, A.; Cunha, M. R. (2017) *Deep-sea mega-epibenthic assemblages from the SW Portuguese margin (NE Atlantic) subjected to bottom trawling fisheries*. *Frontiers in Marine Science*, **4**, 350.
- Sal, S. Alonso-Sáez, L.; **Bueno, J.**; García-García, F.C. & López-Urrutia, A. (2015) *Thermal adaptation, phylogeny and the unimodal size scaling of marine phytoplankton growth*. *Limnology and Oceanography*, **60** (4) 1212-1221.
- Molina-Ramírez, A.; Cáceres, C.; Romero-Romero, S.; **Bueno, J.**; González-Gordillo, J. I.; Irigoien, X.; Sostres, J.; Bode, A.; Mompeán, C.; Fernández-Puelles, M. L.; Echevarría, Duarte, C. M. & Acuña, J. L. (2015) *Functional differences in the allometry of the water, carbon and nitrogen content of gelatinous organisms*. *Journal of Plankton Research*, DOI: 10.1093/plankt/fbv044.
- **Bueno, J.** & López-Urrutia, A. (2014) *Scaling up the curvature of mammalian metabolism*. *Frontiers in Ecology and Evolution*, **2**, 61.
- **Bueno, J.** & López-Urrutia, A. (2012) *The offspring-development-time/offspring-number trade-off*. *The American Naturalist*, **179**, 6. E-article.
- Álvarez, M. A.; Martínez, A.; **Bueno, J.**; Noval, I.; Cimadevilla, C. & Torralba-Burrial, A. (2012) *Primeras citas de Aeshna affinis Vander Linden, 1820 (Odonata: Aeshnidae) para Asturias (N Iberian Peninsula)*. *Boletín de la Sociedad Entomológica Aragonesa*, **51**, 357-358.
- Nogueira, E.; Batle, J. M.; Cabal, J.; González-Nuevo, G.; Revilla, R.; Álvarez, E. & **Bueno, J.** (2008) *Accumulation of Northern Krill (Meganyctiphanes norvegica) in a convergence zone at the Cap Breton Canyon (Southern Bay of Biscay)*. *Ciencia Marina*, **3**, 225-226.

PARTICIPATION IN RESEARCH PROJECTS

- September 2019 – Present: Climate change and Portuguese Fisheries (**ClimFISH**). Center of Marine Sciences of Faro (Portugal). PI: Francisco Leitão.
- November 2017 – May 2019: Climate change and European Aquatic RESources (**CERES**). University of Hamburg (Germany). PI: Dr Myron Peck.
- July 2014 – December 2016: The Economic Valuation and Governance of Marine and Coastal Ecosystem Services (**MCES**). Calouste Gulbenkian Foundation (Portugal). PI: Prof Henrique Queiroga and Prof Maria Antonieta Cunha e Sá.
- June 2011: Network of leading MESOCosm facilities to advance the studies of future AQUatic ecosystems from the Arctic to the Mediterranean (MESOAQUA). University of Bergen (Norway). PI: Dr Jens Nejstgaard.
- 2010: **Expedición Malaspina 2010**: Circumnavigation expedition for the exploration of the biodiversity of the global ocean. Spanish National Research Council (Spain). PI: Dr Carlos Duarte.
- 2009 - 2012: Integration of Image Analysis methods for planktonic groups with Artificial Intelligence Techniques (**IMAGINA**). Spanish Institute of Oceanography (Spain). PI: Dr Ángel López-Urrutia.
- 2006: Catálogo de la flora vascular del Principado de Asturias. Atlantic Botanical Garden of Gijón and University of Oviedo (Spain). PI: Dr Álvaro Bueno.

AWARDS

- January 2013: *Accésit* of the IV Research Award of the Insitute of Marine Studies for Nutrition and Welfare (Spain) for the work “*Larval accumulation in the coastal ocean: the role of larval behaviour*” by Weidberg, N.; Bueno, J. and Fernández, C.
- April 2015: Best oral communication at the IV Encontro Nacional de Pós-Graduação em Ciências Biológicas for the work “What’s a picture really worth? On the use of aerial imagery to study intertidal rocky shores” by Gomes, I; Peteiro, L; Bueno, J.; Albuquerque, R. and Queiroga, H.

ORIENTATION OF STUDENTS

- December 2016: Carolina Nunes Ladeira, MSc. *Ecology, distribution, habitat segregation and tidal migration of green crab Carcinus maenas in Ria de Aveiro, Portugal*. Universidade de Aveiro (Portugal). Co-orientation with Prof. Henrique Queiroga.

PRESENTATIONS IN INTERNATIONAL SCIENTIFIC MEETINGS

- April 2019: **Oral communication**: Integration of a DEB model in an IBM for European anchovy: population hindcast and other applications. Bueno-Pardo, J.; Petitgas, P.; Kay, S.; Huret, M. 6TH International Symposium on Dynamic Energy Budget theory, Brest (France).
- June 2018: **Oral communication**: *Sensitivity of anchovy population to climate change in the Bay of Biscay (using a bioenergetic model)*. Bueno-Pardo, J.; Petitgas, P.; Kay, S.; Huret, M. 4th Climate Change Symposium, Washington DC (USA).
- April 2018: **Oral presentation**: *DEB-IBM for anchovy in the Bay of Biscay*. Huret, M.; Bueno-Pardo, J.; Petitgas, P. Meeting of the Working Group on Integrative, Physical-biological and Ecosystem Modelling (WGIPEM) of ICES, Copenhagen (Denmark).
- November 2016: **Oral communication**: *Portuguese Marine Fisheries in the context of Ecosystem Services: Driving factors between 1989 and 2014*. Bueno-Pardo, J.; Valavanis, V.; Pita, C.; Assis, J.;

- Dubert, J.; Cabecinha, E.; Pierce, G. J.; Queiroga, H. *Campus do Mar International Science Conference, Vila Real (Portugal)*.
- September 2015: **Poster communication:** *Trophic web structure and ecosystem attributes of a temperate coastal lagoon (Ria de Aveiro, Portugal)*. Bueno, J.; García-Seoane, E.; Queiroga, H.; et al. H. *15th European Congress of Ichthyology, Porto (Portugal)*.
 - September 2015: **Poster communication:** *Characterization of deepwater crustacean trawling fisheries in the Portuguese continental margin*. Bueno, J.; García-Alegre, A.; Ramalho, S. P.; Vieira, R. P.; Cunha, M. R.; Queiroga, H. *14th Deep Sea Biology Symposium, Aveiro (Portugal)*.
 - April 2015: **Oral communication:** *What's a picture really worth? On the use of drone aerial imagery to study intertidal rocky shores*. Gomes, I.; Peteiro, L. G.; Bueno, J.; Albuquerque, R.; Queiroga, H. *Mares Conference, Olhão (Portugal)*.
 - July 2014: **Oral communication:** *Early spatial signals for a switch in ecosystem state: an example from fine scale variability of intertidal assemblages*. Porri, F.; Bueno, J.; Berger, U. *15th Southern African Marine Science Symposium, Stellenbosch (South Africa)*.
 - September 2012: **Oral communication:** *Mapping plankton biomass in the deep-ocean: an ecological provinces approach*. Bode, A.; Acuña, J. L.; Bueno, J.; Fernández de Puelles M. L.; González Gordillo, J. I.; Hernández-León, S.; Irigoien, X.; Mompeán, C.; Olivar, P. *ICES Annual Conference, Bergen (Norway)*.
 - March 2011: **Oral communication:** *A unifying theory of metabolic scaling and life history evolution for developmental time*. Bueno, J.; López-Urrutia, A. *5th Zooplankton Production Symposium, Pucón (Chile)*.
 - March 2011: **Poster presentation:** *Phenology and dispersion patterns of decapod larvae in North Spain during 2006*. Bueno, J.; López-Urrutia, A.; dos Santos, A. *5th Zooplankton Production Symposium, Pucón (Chile)*.
 - February 2010: **Poster presentation:** *Effects of Temperature, Body Size and Reproductive Strategies on Planktonic Larval Duration in Marine Decapods*. Bueno, J.; López-Urrutia, A. *ASLO Ocean Sciences Meeting, Portland, OR (USA)*.
 - 2008: **Poster presentation:** *Accumulation of Northern Krill in a convergence zone at the southern Bay of Biscay*. Nogueira, E.; Batle, J. M.; Cabal, J.; González-Nuevo, G.; Revilla, R.; Álvarez, E.; Bueno, J. *International Symposium on Eastern Boundary Upwelling Ecosystems, Las Palmas, Spain*.
 - 2008: **Poster presentation:** *Accumulation of Northern Krill in a convergence zone at the Cap Breton Canyon (southern Bay of Biscay)*. Nogueira, E.; Batle, J. M.; Cabal, J.; González-Nuevo, G.; Revilla, R.; Álvarez, E.; **Bueno, J.** *XI International Symposium on Oceanography of the Bay of Biscay, San Sebastián, Spain*.

CHAPTERS IN TECHNICAL REPORTS / OTHER SCIENTIFIC PRODUCTION

- 2017 [Policy Brief]: *Trawling in Portugal: what if it happened on land?* Bueno-Pardo, J.; Queiroga, H.; Pierce, G. J.; Grilo, C. Calouste Gulbenkian Foundation, Lisbon, 2017.
- August 2013: *Zooplankton of the Bay of Biscay and Western Iberian shelf*. Bode, A.; Bueno, J.; López-Urrutia, A. et al. in ICES Zooplankton Status Report 2010/2011. No. 308 Special Issue. Pages 132-161.
- May 2011: *Zooplankton of the Northwest Iberian Peninsula*. Bueno, J.; López-Urrutia, A. et al. in ICES Zooplankton Status Report 2008/2009. No. 307 Special Issue. Pages 102 – 113.

STAYS AT INTERNATIONAL RESEARCH CENTERS

- August – October 2010: **Stay at National Institute of Aquatic Resources of Copenhagen** (Technical University of Denmark, DTU). Supervisor: Dr Thomas Kiørboe.
- May 2008: **Stay at the Portuguese Institute of Marine Research** (Lisbon). Ecology and identification of marine decapod larvae in the laboratory. Supervisor: Dr Antonina dos Santos.

OTHER RESEARCH / LABORAL EXPERIENCES

- May 2018: **Research Cruise PELGAS (Oceanographic expedition)**. Stock assessment of small pelagics in the Bay of Biscay using acoustic methods. Research Vessel *Thalassa*.
- 2015/2016: **Teaching practical course of Biological Oceanography** at the Marine Biology degree program of the Universidade de Aveiro (Portugal); 36 hours.
- January – February 2011: **Research Cruise MALASPINA2010 (Oceanographic expedition)**. Circumnavigation Global Change Expedition. Leg 2 (Rio de Janeiro - Cape Town). Zooplankton and jellyfish sampling. Research Vessel *Hespérides*.
- April 2009: **Research Cruise PELACUS0409 (Oceanographic expedition)** (ECOPEL project). Stock assessment of small pelagics. Research Vessel *Thalassa*.
- September 2008: **Research Cruise PELACUS1008 (Oceanographic expedition)** (ECOPEL project). Research Vessel *Thalassa*.
- August 2008: **Research Cruise PERPLAN0808 (Oceanographic expedition)** (PERPLAN project). Research Vessel *Francisco de Paula Navarro*.
- 2007: **Divulgation/teaching**. Fisheries Research Center of Gijón. Servicios de Gestión Medioambiental (SIGMA s.l.).
- 2007: **Teaching**. "Initiation to Ornithology". Popular University.
- 2007: **Divulgation/teaching**. Nature Interpretation Center of the Villaviciosa Estuary, N. of Spain. Servicios de Gestión Medioambiental (SIGMA s.l.).
- 2007: **Teaching**. "Footprints, traces and signs of wild animals". Popular University.
- August – December 2006: **Internship**. Botanical Garden of Gijón.
- 2006: **Divulgation/teaching**. "Initiation to ornithology for kids". Ornithological Society of Asturias (COA).
- July – August 2000: **Worker**. Repsol – YPF.

LANGUAGE SKILLS

- **Spanish and Galician**: native.
- **English**: Perfectly fluent conversation, writing and reading. Participation in international conferences and used to write scientific communications in English. First Certificate from the Cambridge University (2008).
- **Portuguese**: perfectly fluent conversation, writing and reading.
- **French**: understanding and expression.

OTHER INFORMATION

- International **driving license**.
- Proficiency in **R** and **fortran programming**.
- **Latex** document preparation system.
- Experience in transmission of results, research, management of bibliography, etc.
- **Hobbies**: ornithology, entomology, informatics, botany, photography, music and philology.
- **CMAS*** scuba diver license.