

Curriculum vitae with track record (for researchers)

Role in the project Project manager Project partner

Personal information

First name, Surname:	Pedro Duarte		
Date of birth:	14.11.1964	Sex:	Male
Nationality:	Portuguese		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	orcid.org/0000-0001-7461-605X		
URL for personal website:			

Education

Year	Faculty/department - University/institution - Country
1995 (dissertation defended)	Ph.D.
1988	Master

Positions - current and previous

(Academic sector/research institutes/industrial sector/public sector/other)

Year	Job title – Employer - Country
2013-	Senior Research Scientist at the Norwegian Polar Institute
1995-2013	Associate Professor at University Fernando Pessoa, Porto, Portugal

Career breaks

Year	Reason
YYYY-YYYY	None

Project management experience

(Academic sector/research institutes/industrial sector/public sector/other. Please list the most relevant.)

Year	Project owner - Project - Role - Funder
2019-	Mesoscale physical and biogeochemical modeling of the ocean and sea-ice in the Arctic Ocean. Project owner: Norwegian Polar Institute (https://www.npolar.no/en/). Role: Principal investigator.

	Funder: Fram Center, Norway (https://framcentre.com/).
2014-2018	Ecosystem modelling of the Arctic Ocean around Svalbard. Project owner: Norwegian Polar Institute (https://www.npolar.no/en/). Role: Principal investigator. Funder: Fram Center, Norway (https://framcentre.com/).
2013-2013	Coupling different modelling platforms: an activity across Fram Centre Flagships. Project owner: Norwegian Polar Institute (https://www.npolar.no/en/). Role: Principal investigator. Funder: Fram Center, Norway (https://framcentre.com/).
2011-2014	Seamount benthic primary production: a new hypothesis to explain abundance and biodiversity over shallow seamounts (GreenMount). Project owner: Interdisciplinary Centre of Marine and Environmental Research, Portugal (https://www2.ciimar.up.pt/about.php). Role: Principal investigator. Funder: Portuguese Science and Technology Foundation (https://www.fct.pt/fct.phtml.en). Project reference: PTDC/MAR/111011/2009

Supervision of students

(Total number of students)

Master's students	Ph.D. students	University/institution - Country
3	1	New University of Lisbon, Portugal
1	2	Oporto University, Portugal
2		Fernando Pessoa University, Portugal
1	1	University of Algarve, Portugal
1		Norwegian University of Science and Technology

Other relevant professional experiences

(E.g. institutional responsibilities, organisation of scientific meetings, membership in academic societies, review boards, advisory boards, committees, major research or innovation collaborations, other commissions of trust in public or private sector)

Year	Description - Role
2018-	Leader of the Modelling Works package within the Kongsfjorden flagship program, Norway
2008-2013	Coordinator of a PhD program on Ecology and Environmental Health at University Fernando Pessoa, Portugal
2008-2013	Coordinator of the Environment and Applied Ecology Research Group at University Fernando Pessoa, Portugal
2005-2007	President of the Scientific Council of the Faculty of Science and Technology at University Fernando Pessoa, Portugal
1995-	Reviewer for several scientific journals: Aquaculture, Ecological Modelling, Journal of Experimental Marine Biology and Ecology, Journal of Geophysical Research, Marine Ecology

Track record

- The total *number* of publications during the career: 95
- *Ten* publications in major international peer-reviewed journals

Duarte, P., Assmy, P., Hop, H., Spreen, G., Gerland, S., Hudson, S.R., 2015. The importance of vertical resolution in sea ice algae production models. *Journal of Marine Systems* 145: 69-90.
<http://dx.doi.org/10.1016/j.jmarsys.2014.12.004>.

Duarte, P., Meyer, A., Olsen, L.M., Kauko, H.M., Assmy, P., Rösel, A., Itkin, P., Hudson, S.R., Granskog, M.A., Gerland, S., Sundfjord, A., Steen, H., Hop, H., Cohen, L., Peterson, A.K., Jeffery, N., Elliot, S.M., Hunke, E.C., Turner, A.K., 2017. Sea ice thermodynamics and biogeochemistry in the Arctic Ocean: Empirical and model results. *Journal of Geophysical Research Biogeosciences*, 122, doi:10.1002/2016JG003660.

Duarte, P., Weslawski, J.M., Hop, H., 2019. Outline of an Arctic fjord ecosystem model for Kongsfjorden-Krossfjorden, Svalbard. In: Hop H., Wiencke C. (eds) *The Ecosystem of Kongsfjorden, Svalbard*. *Advances in Polar Ecology*, vol 2. Springer, Cham, pp. 485-514.

Fernández-Méndez, M., Olsen, L.M., Kauko, H.M., Meyer, A., Rösel, A., Merkouriadi, I., Mundy, C.J., Ehn, J.K., Johansson, M.A., Wagner, P.M., Ervik, Å., Sorrel, B.K., Duarte, P., Wold, A., Hop, H., Assmy, P., 2018. Algal hot spots in a changing Arctic Ocean: Sea-ice ridges and the snow-ice interface. *Frontiers in Marine Science* 5: 75. doi: 10.3389/fmars.2018.00075.

Kauko, H.M., Olsen, L.M., Duarte, P., Peeken, I., Granskog, M.A., Johnsen, G., Fernández-Méndez, M., Pavlov, A.K., Mundy, C.J., Assmy, P., 2018. Algal colonization of young Arctic sea ice in spring. *Front. Mar. Sci.* 5:199. doi: 10.3389/fmars.2018.00199.

Hop, H., Assmy, P., Wold, A., Sundfjord, A., Daase, M., Duarte, P., Kwasniewski, S., Gluchowska, M., Wiktor, J.M., Tatarek, A., Wiktor Jr., J., Kristiansen, S., Fransson, A., Chierichi, M., Viktakari, M., 2019. Pelagic Ecosystem Characteristics across the Atlantic Water Boundary Current from Rijpfjorden, Svalbard, to the Arctic Ocean During Summer (2010-2014). *Frontiers in Marine Science*. doi: 10.3389/fmars.2019.00181.

Sousa, A.G.G., Tomasino, M.P., Duarte, P., Fernández-Méndez, M., Assmy, P., Ribeiro, H., Surkont, J., Leite, R., Pereira-Leal, J.B., Torgo, L., Magalhães, C., 2019. Diversity and composition of pelagic prokaryotic and protist communities in a thin Arctic ice regime. *Microbial Ecology*. doi.org/10.1007/s00248-018-01314-2

Halbach, L., Assmy, P., Vihtakari, M., Hop, H., Duarte, P., Wold, A., Kauko, H.A., Kristiansen, S., Everett, A., Myhre, P.I., Wulff, A., Pramanik, A., Pavlov, A. K., Granskog, M.A., Torsvik, T., Steen, H., Tatarek, A., Wiktor, J.M., 2019. Tidewater Glaciers and Bedrock Characteristics Control the Phytoplankton Growth Environment in a Fjord in the Arctic. *Front. Mar. Sci.* 6:254. doi: 10.3389/fmars.2019.00254.

Graham, R., Itkin, P., Meyer, A., Sundfjord, A., Smedsrud, L.H., Liston, G., Cheng, B., Cohen, L., Divine, D., Fer, I., Fransson, A., Gerland, S., Haapala, J., Hudson, S.R., Johansson, M., King, J., Merkouriadi, I., Peterson, A., Provost, C., Randelhoff, A., Rinke, A., Rösel, A., Walden, V., Duarte, P., Assmy, P., Steen, H., Granskog, M.A., 2019. Winter storms accelerate the demise of Arctic sea ice. *Sci. Rep.* 9, 9222. Doi: 10.1038/s41598-019-45574-5

Olsen, L.M., Duarte, P., Peralta-Ferriz, C., Kauko, H.M., Johansson, A.M., Peeken, I., Fernández-Mendez, M., Wagner, P.M., Pavlov, A.K., Hop, H., Assmy, P., 2019. A red tide in the pack ice of the Arctic Ocean. *Sci. Rep.* 9, 9536. Doi: 10.1038/s41598-019-45935-0

Published datasets

Assmy, P., Duarte, P., Dujardin, J., Fernández-Méndez, M., Fransson, A., Hodgson, R., ... Wold, A. (2016). N-ICE2015 water column biogeochemistry [Data set]. Norwegian Polar Institute. <https://doi.org/10.21334/npolar.2016.3ebb7f64>

Dodd, P., Meyer, A., Fransson, A., Koenig, Z., Cooper, A., Duarte, P., ... Davis, P. (2016). N-ICE2015 bottle data from on-ice water sampler [Data set]. Norwegian Polar Institute. <https://doi.org/10.21334/npolar.2016.089354c2>.

Assmy, P., Dodd, P. A., Duarte, P., Dujardin, J., Elliott, A., Fernández-Méndez, M., ... Wold, A. (2017). N-ICE2015 sea ice biogeochemistry [Data set]. Norwegian Polar Institute. <https://doi.org/10.21334/npolar.2017.d3e93b31>

Olsen, L. M., Assmy, P., Duarte, P., Laney, S. R., Fernández-Méndez, M., Kauko, H., ... Wold, A. (2017). N-ICE2015 phytoplankton and ice algae taxonomy and abundance [Data set]. Norwegian Polar Institute. <https://doi.org/10.21334/npolar.2017.dc61cb24>.

Outreach publications

Duarte, P., Hattermann, T., Juselius, J., Yakushev, E., 2015. Ecosystem modelling of the Arctic Ocean around Svalbard (ArctisMod) – a new ecosystem modelling project at the Fram Centre. Fram Forum.

Duarte, P., 2016. Modeling the ecosystem in the Arctic Ocean around Svalbard. Fram Forum.

Steen, H., Kohler, J., Assmy, P., Hop, H., Duarte, P., Wold, A., Sundfjord, A., 2017. Tidewater glacier fronts: Arctic oases in retreat. Fram Forum.

Assmy, P., Duarte, P., Halbach, L., Hop, H., Husum, K., Kauko, H.M., Kohler, J., Sundfjord, A., Vihtakari, M., Wold, A., Steen, H., Jones, E., Kristiansen, S., Poste, A., 2018. Tidewater glaciers: role in the marine ecosystem of Kongsfjorden, Svalbard. Fram Forum.

Vihtakari, M., Hop, H., Assmy, P., Griffith, G., Duarte, P., Wold, A., Gabrielsen, G., Daase, M., Bluhm, B., Hegseth, E.N., Renaud, P.E., Søreide, J.E., Moe, B., 2019. Atlantification of the marine ecosystem in Kongsfjorden, Svalbard. Fram Forum.