Curriculum Vitae(Nov 2023)

RUT PEDROSA PÀMIES.D.

Assistant Research Investigator
The Ecosystems Center
Marine Biological Laboratory
7 MBL Street Woods Hole, MA 02540315, USA

Tel:508-289-7715

E-mail: rpedrosa@mbl.edu
Twitter: @Rut_PedPam

Google Scholarhttps://scholar.google.com/citations?user=2nMjfA8AAAAJ&hl=en

Research Interests

- x Marine biogeochemistry
- x Cyclims and a feetless mental single the second of the control o
- x Role of microbesin regulating particle fluxes and sedimentation processes marine ecosystems
- x Transfer and fate conganic pollu" x CQ r a class de le front de la constant de

and Dr. A. Calafat

AcademicAppointments

2022-present	*Assistant Research InvestigatorThe Ecosystems Center, Marine Biological laboratory (Woods Hole, MA, USA*)equivalent of a tenure rackposition)		
2018-present	ResearchScientist The Ecosystems Center, Marine Biological laboratory Hole, MA, USA)		
2016-2018	Postdoctoral Scientist The Ecosystems Center, Marine Biological labora (Woods Hole, MA, USASupervisor: Dr. Maureen H. Conte		
2015-2016	Assistant Researcher.		

2014	Visiting Researcher Hellenic Centre for Marine Research, Institute Oceanography(HCMR) (Anavyssos, Attiki, Greece). SupervisoAsexandra Gogou and Constantine Parinos. To ecchemical analysis of biomarkers in sediment trap samples and discussion of the results (6 weeks).
2012	Visiting ResearcheHCMR(Anavyssos, Attiki, Greece). Supervisor. Nikolaos Lampadariou and DrAlexandra Gogou. Topiceochemical analysis of se surface samples and manuscripotiting (3 months).
2011-2015	Pre

Professional Affiliations

Geochemical SocietyAmerican Geophysical Union (AGU), Oceanographiets

Professional Service (Management and committees)

2023- 2023- 2023-2024	AdvisorPhDCommitteeCharlotte Schnepper (ETH, Zurich). NSF EarthCubfunded Research Coordination Network (MERSN)steering committee representative for the long-time series Oceanic Flux Program Helping to develop FAIR data practices for commonly measured biological and biogeochemical variables in timeeries Chairin the in the International Ocean Science Meet (New Orleans, Februar 2024)sessions: "Time Series Observations of Ocean Biogeochemistry: What We Have Learned and What We Will Learr(Cochairs:M. Noguchi Aita, MHondaand A.EWhite)
	"Behavior, Fate, and Ecosystem Impacts of Aquatic Plastics 'D@wishairs: M. Duhaime Z.Liu and JK. Choi)
2023-	Topic Editorin Frontiers in Earth Science the research topic "The Ocean Particle Flux and its Cycling Within the Deep Water Column
2021-2022	Leadchairin the International Ocean Science Meeting session "Biogeocher of marine particles: from coastal to deep ocean", Honolulu, February 2022. chairs: Z. Liu, A. Bochdansky, A. Engel)
2020	Editor of the Ecosystems Center (Marine Biological Laboratory)ual Report 2018-2019
2019-2021	Topic Editorin Frontiers in Earth Science the research topic "The Ocean Particle Flux and its Cycling Within the Deep Water Collumn
2019	Co-Chair in the International GoldschmidConferencesession "The Oceanic Particle Flux and its Cycling Within the Deep W@delumn", Barcelona, August 2019.
2010-2016	Assistant Secretary Doctoral Program in Marine Science (University of Barcelona, Coord. Miquel Can)als
2011-2016	Student Representative Doctoral Programin Marine Science University of Barcelona).
2013	Ad hocReviewer, Doctoral Programsor the Andalusian Agency of Knowled (AGAE). Assessment tasks for verification and modification of official Doctoral Programs 2012 (member of the doctoral mmittee).
2012	Assistant organizer for International conference The DeepSea & Sub Seafloor Frontiers Conference (DS3F)141 March 2012, Sitges, Barcelona.

Reviewer for proposals or the National Science Foundation.

Review for journals Progress in Oceanograph jogeoscience Geochimica et Cosmochimica Acta, Continental Shelf Research Aquatic Ecology ACS Earth and Space Chemis Ryemote Sensing Geoscience Research Letters, Limnology and Oceanography, Global Biogeochemical Cycles.

Scientificexpertise

Analytical chemistry: analysis of lipid biomarkers (MS and GGRMS), elemental composition (C, OC, TN and CagOstable isotopic composition (C and (SN)), grain size, elemental analysis (SEM/EDS)

Oceanographic instrumentation:

Other Participation inother Research Projects
2016-2018 National Science Foundatio@ceanic Flux Program(OFP) Particle Flux Timeeries (1978). Pt Maureen ConteFunding:

Role elemental and isotopic composition analysis inference presentations an manuscript writing.

OngoingResearch Collaborators list

US national institutions M. H. Conte Marine Biological Laborator (MBL) oceanography, organic geochemistry, E. Ruff MBL, genomics plastic research, J. Mark Welch MBL, genomics/microscopy plastic research), A. Kuma arine Biological Laborator particles image analysis J. Llore and Ivan Valiela (MBL, coastal/estuarine plastic research). Subha M. Hashim (WHOI, a, aBL

Water column sampling with TD rosette for organic molecular tracers.

2013 DOSMARE\$/V Sarmiento de Gamboa. Cantabrian **3**earuises23-27 Feb 2013

and 2329 Sep 2012R/V García del Ci**M**W Mediterranean Sea. **42**0 Mar 2012. Recovery/turnaround/redeployment of **4**noorings, CTD profilingmulticorer

sediment trampling and deep sea fishing of bathypelagic species.

2012-2013 Ierapetra TimeSeriesREDEC. CR/V. Aegeo. (E Mediterranean Sea)2 cruises 6-

10 Sep 2013, 94 Jun 2012.

Recovery/turnaround/redeployment of a very deep mooring 4400 m a

6017. BT -0-8.8-9.379 32.[(H)4Wm**Tittifc**Tr**.6n/boX6d**rerks**8gid/reen7** sa**n qo**lin**gChi459S6ien5Et|fn/16155628n/6665513610/6677**

- and arsenic in submarine canyons. Progress in Oceanography, , 218 doi.org/10.1016/j.pocean.2023.103122.
- Conte, M., Pedrosa Pàmies, R. Honda, M. Herndl, G., 2022 he oceanic particle flux and its cycling within the deep water column Front. Earth Scil 0:1020065. doi: 10.3389/feart.2022.1020065.
- Tarrés, M., Cerdo omènech, M., Pedros Dàmies, R., Rumín Caparrós, A., Calafat, A., Canals, M., Sanche Vidal, A., 2022 Particle fluxes in submarine canyons along a sedinstant ved continental margin and in the adjacent open slope and basin in the SW Mediterranean Sea. Progress in Oceanography 203, 102783. doi:10.1016/J.POCEAN.2022.102783
- PedrosaPàmies, R.Parinos, C., Sanchézidal, A., Calafat, A., Canals, M., Velaoras, D., Mihalopoulos, N., Kanakidou, M., Lampadariou, N. and Gogou2021. Atmospheric and oceanographic forcing impact on particle flux and carbon sequestration in the Eastern Mediterranean Sea: aythanee sediment trap timeseries study in the deep lerapetra Basimonters in Earth Seince 9, 25, doi:10.3389/feart.2021.591948.
- Lloret, J., PedrosaPamies, R.,*Vandal, N., Rorty R., Ritchie M., McGuire, C., Chenoweth, K., Valiela, I, 2021. Salt marsh sediments act as sinks for microplastics and reveal effects of current and historical land use changesEnvironmental Advances, 4, 100060, doi:10.1016/j.envadv.2021.100060*Both authors contributed equally to this
 - *This paper had a large coverage by the media and was cited in several news Paperlian Science Standard Time New Bedford Cape Cod Times, Falmouth Enterprise, Rhodes College news, etc.) and local radio programs (Local NPR for the Cape, Coast & Islands).
- Bourrin, F., Uusõue, M., Artigas, M. C., Sàndriezl, A., Aubert, D., Menniti, C., Klar, J., Amblás, D., Calafat, A. M., Frigola, J., Iglesias, O., Manea, E., Petansies, R. Quesada, S., Rayo, X., Rivera, J., Rumín, A., Tangherlini, M. and Tubau 28/21. Release of particles and metals into seawater following sediment resuspension of a coastal mine tailings disposal off Portmán Bay, Southern Spain, Environmental Science Pollution Research 40:10.1007/s1135621-140061.
- 1 Tc -0.002 Tw 0.4 (O)-2 (.)1 (-0.07 207 Td [(C)v.6 4av)-5.5 (is)-1.3 (,)9.97 ()11.2 (E)-2.2 94.6 (.)0.96mw

- *PedrosaPamies, R December2021. Sinking marine particles and tropical storms in the North Atlantic. University of Southern Mississippi, Marine Science Seminar Seies ans (Web Seminar).
- *PedrosaPamies, R, July 2021. Tropical cyloaetivity and its impact on marine ecosystems. Seminar talk and discussion. University of Chicago Francis and Rose Yuen **Odinipses**ies Oceans (Webnar).
- Jiang, X., Gallager, S., Pedr Stamies, R, Ruff, R., Bochdansky, A., Liu, June 2021. Evaluation of plastic photod0 Tc 0 Tw 9.W(e)-5 (s)-11.2 (01 Tc 0.02.2 (las)-1.3 (t)-30.6 (h)-23 (t)-)-3 (ic/-7.8 (01t)-)-3.9 (i)

*PedrosaPàmies, R.,

- PedrosaPàmies, R.Sancheż/idal, A., Calafat, A., Canals, M., Parinos, C., Gogou, A., Lampadariou, N. February 2013The deep basins of the Eastern Mediterranean Sea: results of-petarophysical and biogeochemical assessment. Annual ReDEco meeting. Alfatens (Greece)
- PedrosaPàmies, R*, Veres, O*, RumínCaparrós, A*, February 2013Marine sedimentary particles as drivers of the deep marine ecosysteralk Conference on Interdisciplinary Doctoral Researchers (JIPI, University of Barcelona), Barcelona (Spara) ually contributed)
- Canals, M., Sanchézidal, A., Cafat, A., PedrosæPàmies, R. Lastras, GApril 2013Extreme event impacts on seafloor ecosystemsalk.EGU (European Geosciences Union) General Assembly. Vienna (Austria)
- Durán, R., Canals, M., Lastras, G., Sankhat, A., Micallef, A., Amblas, PedrosaPàmies, R. September 2012. Seafloor impact of episodic events in the neighbourhood of Blanes submarine canyon head, NW Mediterranean Seaster 3rd Annual Hermione Meeting. Faro (Portugal).
- RumínCaparrós, A., Sanchezidal, A., Calafat, A., Canalls, PuigP., Martín, J., Pedrosamies, R. Amblas, D., Rayo, XSeptember 2012. 20090 and 2010-11 winter dense shelf water formation in the Gulf of Lion and its consequences in Cap de Creus submarine callows. Annual Hermione Meeting. Faro (Portugal).
- PedrosaPàmies R., Sanche Zidal, A., Calafat, A., Canals, M., Lampadario Sentember 2012 The

2014 Lucía Quirós Collazos (Master in Oceanography and Management of Mar Environment Univ. of Barcelona)MsC thesis "Carbon composition and isotopic characterization in neasthore sediments of the NW Mediterrane ar Co-supervisor: Anna Sanchez Vidal

Undergraduate student (Marine Biological Laboratory)

2023 Lillian Cusa(Semester in Environmental Scier(SES) tudent, the Ecosystems Cente Project "

July 2021 Children's bookollaboration with Gregory Mon(How our planet works?). Role interview with the writer/illustrator to help them to understand the dynamics