

Curriculum Vitae | Dr. Catarina V. Guerreiro - Marine Biogeosciences

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MAIN POSITION: Junior Researcher CEECIND

[[DOI:10.54499/CEECIND/00752/2018/CP1534/CT0011](https://doi.org/10.54499/CEECIND/00752/2018/CP1534/CT0011)]

PERSONAL WEBPAGES: [MARE/ARNET](#) and [IDL](#)

COORDINATOR OF FCT-CEECIND [CHASE](#) | **NATIONAL PI** [OAEPIIP](#)

INSTITUTIONAL ADDRESS:

MARE – Marine and Environmental Sciences Centre

FCUL, Campo Grande, 1749-016 Lisboa, Portugal



March 2023, NE Atlantic off NW Africa, on board RV Pelagia

I am a Marine Micropaleontologist with a multidisciplinary profile, specializing in Marine Biogeosciences, Biological Oceanography, (Paleo)ecology, (Paleo)oceanography, and Atmosphere–Ocean–Seafloor interactions. My research focuses on coccolithophores (calcareous nannoplankton)—tiny but powerful drivers of the global carbon cycle—using their signatures from the water column, particle fluxes, and sediments to decipher modern and past Earth System (ecological, oceanographic and atmospheric) processes. To that aim, I integrate in-situ observations, experimental, satellite and model output data to understand marine pelagic ecosystem responses to natural and anthropogenic changes.

Research Expertise

- Investigate ecological and biogeographic drivers of coccolithophore productivity and species composition, and quantifying their impact on the marine carbon cycle across multiple timescales—from snapshots of annual productivity in the water column to sediment archives.
- Combine high-resolution taxonomic analyses (light and scanning electron microscopy) with environmental and biogeochemical datasets.
- Integrate field data with Earth Observation products, microcosm experiments, lagrangian model output, and Carbon Dioxide Removal (CDR) approaches, including Ocean Alkalinity Enhancement and shipboard Ocean Fertilization experiments.
- Contribute to satellite calibration studies and monitoring of ocean productivity (ESA [BICEP](#) and [PRIMUS](#) projects; data from AMT31 for [NASA PACE Mission](#)).

Academic Background & Individual Grants

- PhD in Geology, specializing in Paleontology and Stratigraphy, University of Lisbon, Portugal.
- **Marie Skłodowska-Curie Action** (MSCA-COFUND BREMENTRAC) Postdoc, University of Bremen, Germany (2015).
- **Marie Skłodowska-Curie Action** (MSCA-H2020 Fellow), Project [DUSTCO](#), FCIências-ID/MARE-ULisboa (2018), investigating transatlantic Saharan dust deposition and its effects on coccolithophore productivity and the biological carbon pump.

Current Projects & Leadership

- **FCT-CEECIND project** [CHASE](#) (2020–present): Quantifying dust impacts on coccolithophore productivity across the Atlantic and Southern Ocean, based on data collected during multiple marine expeditions, including the Atlantic Meridional Transect (AMT28, 29, 31).
- National coordinator, [OAEPIIP](#) (**O**cean **A**lkalinity **E**nhancement **P**elagic **I**mpact **I**ntercomparison **P**roject), funded by [Sea to Carbon Initiative](#).
- Member/collaborator in national/international initiatives: [Med-Trap](#) (NWO), [JETZON](#) (WP Carbonate Pump), [Ocean ICU](#) (EU Horizon), and [PROPOLAR](#) Dia2CRYP (FCT).
- Former Work Package & Science Case leader, **ESA** [PRIMUS](#).

Fieldwork & Expedition Experience

- Participated in **13 multidisciplinary marine expeditions**, including Atlantic (DUSTTRAFFIC JC134, 2016; [Ocean ICU](#), 2025) and Antarctic (37th OPERANTAR, 2019) cruises.
- Invited for **Arctic expedition IMAGE** (Impacts of Mesoscale Activity on Biogeochemical Processes in the Greenland Sea), July–August 2026, led by IOCAG.

Publications & Impact

- **21 peer-reviewed papers** (81% Q1; 62% first-author; 81% since PhD), including *Nature Communications* and *Nature Scientific Reports*.
- **21 curated datasets** published (PANGAEA, BODC, EMODnet).
- 62 presentations at national and international conferences, including **two plenary keynotes** at the 9th SOLAS Open Science Conference (India, 2024) and the 4th Advances in Coccolithophore Research Meeting (UK, 2025);
- **Convener of 3 thematic sessions**, including AGU Ocean Sciences Meeting (OSM) 2024 (New Orleans, USA) and OSM 2026 (Glasgow, Scotland, UK);
- Lead Guest Editor of Research Topic: “**Aerosol Deposition in the Ocean: Drivers and Biogeochemical Effects**,” *Frontiers in Marine Science*.

Teaching & Mentorship

- Nearly **6 years of university-level teaching**, from BSc (Marine Botany and Object, Methods and Applications of Geology) to MSc (Phytoplankton Biology, Primary Production, Marine Geology).
- Supervised and trained **ERASMUS+ [4] and MSc students [7]** across FCUL, University of Aveiro and University of Milano-Bicocca (Italy), since 2021.
- Member on PhD committee at Utrecht Universiteit.
- Supervisor of PhD project in Marine Sciences at FCUL (starting in Jan 2026).

Service & Leadership

- Founding national representative, [SOLAS Portugal](#) (Surface Ocean – Lower Atmosphere Study);
- Member of the SOLAS Europe regional committee.
- Co-coordinator for SOLAS 3.0 Discovery Science Plan (2025–2030), submitted to [SCOR](#) (Scientific Committee on Oceanic Research).
- **Board of Directors, Foundation INA** (International Nannoplankton Association).

Outreach

- My research has been featured in over 34 national and international media outlets—including [Expresso](#), [Público](#), [Visão Online](#), [Sábado Online](#), [Phys Org](#), [EurekAlert!](#)—and I have participated in several interviews, podcasts, and radio programs, such as ANTENA 1’s ‘[90 segundos de Ciência](#)’ (2024), [Público](#)’s Science and Environment section (2023), podcast ‘De Mochila às Costas’ led by the Portuguese Association of Geologists (Youtube and Spotify, 2023), and Activa Magazine (2020).



National Newspaper [Público](#), Section Science and Environment (paper and online versions, 2023).

Summary Statement

I combine multidisciplinary approaches and global-scale field, laboratory, and observational data to advance our understanding of marine biogeochemical cycles, plankton ecology, and the role of ocean–atmosphere–seafloor interactions in past, present, and future climate change.

- 2 Marie Skłodowska Curie Actions + 1 FCT CEECIND
- National PI in CDR-related project (OAEPIIP)
- Member [9] and Participant [16] in Scientific Projects
- WP- and Science Case leader in ESA project (PRIMUS)
- National Representative for SOLAS Portugal
- Board of Directors at INA Foundation
- Total of 21 Peer Reviewed Publications, of which:
81 % indexed to SCOPUS, 62 % as first author,
81% Q1 papers, incl. *Nat. Sci. Reports*, *Nat. Commun.*
81% since PhD (2013), 2 Q1-papers/yr since 2019
- 21 datasets in curated data repositories (incl. PANGAEA)
- 62 conference presentations



Figure 1. My scientific production in Scholar Gogglar

PUBLICATIONS

A. THESIS

GUERREIRO, C.V., 2013. (Paleo)ecology of coccolithophores in the submarine canyons of the central Portuguese continental margin: environmental, sedimentary and oceanographic implications. PhD Dissertation, University of Lisbon, Portugal, 251 pp. <https://repositorio.ul.pt/handle/10451/9680>

B. ARTICLES IN PEER-REVIEWED INTERNATIONAL JOURNALS [21]

Ferreira, A., Mendes, C.R.B., Costa, R.R., Brota, V., Tavano, V.M., **GUERREIRO, C.V.**, Secchi, E., Brito, A.C., 2024. Climate change is associated with higher phytoplankton biomass and longer blooms in the West Antarctic Peninsula. *Nature Communications* 15, 6536, <https://doi.org/10.1038/s41467-024-50381-2>

GUERREIRO, C.V., Ziveri, P., Cavaleiro, C., Stuut, J-B., 2024. Coccolith-calcite Sr/Ca as a proxy for transient export production related to Saharan dust deposition in the tropical North Atlantic, *Nature Scientific Reports* 14 (4295), <https://doi.org/10.1038/s41598-024-54001-3>

Baek, J-Y., **GUERREIRO, C.V.**, Kim, J-S, Nam, J., Jo, Y-H., 2024 Coastal Environmental Changes related to the construction of the Saemangeum Seawall in the Yellow Sea. *Frontiers in Marine Science* 10, 1307218, <https://doi.org/10.3389/fmars.2023.1307218>

Brotas V, Ferreira A, Veloso V, Tracana A, **GUERREIRO, C.V.**, Tarran GA, Woodward EMS, Ribeiro L, Netting J, Clewley D and Groom SB, 2023. Assessing phytoplankton community composition in the Atlantic Ocean from in situ and satellite observations. *Frontiers in Marine Science* 10,1229692, <https://doi.org/10.3389/fmars.2023.1229692>

GUERREIRO C.V., Ferreira A, Cros L, Stuut J-B, Baker A, Tracana A, Pinto C, Veloso V, Rees AP, Cachão M, Nunes T, Brotas V., 2023. Response of coccolithophore communities to oceanographic and atmospheric processes across the North- and Equatorial Atlantic. *Frontiers in Marine Science* 10, 1119488, <https://doi.org/10.3389/fmars.2023.1119488>

Ferreira, A., Brito, A.C., Mendes, C.R.B., Brotas, V., Costa, R.R., **GUERREIRO, C.V.**, Sá, C., Jackson, T., 2022. OC4-SO: A New Chlorophyll-a Algorithm for the Western Antarctic Peninsula Using Multi-Sensor Satellite Data. *Remote Sensing* 14, 1052, <https://doi.org/10.3390/rs14051052>

- GUERREIRO, C. V.**, Baumann, K.-H., Brummer, G.-J. A., Valente, A., Fischer, G., Ziveri, P., Brotas, V. and STUUT, J.-B. W., 2021. Carbonate fluxes by coccolithophore species between NW Africa and the Caribbean: implications for the biological carbon pump. *Limnology & Oceanography* 66 (8), 3190–3208, <https://doi.org/10.1002/lno.11872>
- Korte, K., Brummer, G.-J., van der Does, M., **GUERREIRO, C.V.**, Mienis, F., Munday, C., Ponsoni, L., Schouten, S., Stuut, J.-B., 2020. Multiple drivers of production and particle export in the western tropical North Atlantic. *Limnology & Oceanography* 65 (9), 1961-2259 <https://doi.org/10.1002/lno.11442>
- GUERREIRO, C. V.**, Baumann, K.-H., Brummer, G.-J. A., Fischer, G., Korte, L. F., Sá, C., Stuut, J.-B. W., 2019. Transatlantic gradients in calcifying phytoplankton (coccolithophore) fluxes, *Progress in Oceanography* 176, 102140, <https://doi.org/10.1016/j.pocean.2019.102140>
- Korte, L., Pausch, F., Trimborn, S., Brussaard, C., Brummer, G.-J., van der Does, M., **GUERREIRO, C.V.**, Schreuder, L., Munday, C., Stuut, J.-B., 2018. Effects of dry and wet Saharan dust deposition in the tropical North Atlantic Ocean, *Biogeosciences Discussions*, <https://doi.org/10.5194/bg-2018-484>
- GUERREIRO, C. V.**, Baumann, K.-H., Brummer, G.-J. A., Fischer, G., Korte, L. F., Merkel, U., Sá, C., De Stigter, H., and Stuut, J.-B. W., 2017. Coccolithophore fluxes in the open tropical North Atlantic: influence of thermocline depth, Amazon water, and Saharan dust, *Biogeosciences* 14, 4577-4599, <https://doi.org/10.5194/bg-14-4577-2017>
- Korte, L. F., Brummer, G.-J. A., van der Does, M., **GUERREIRO, C. V.**, Hennekam, R., van Hateren, J. A., Jong, D., Munday, C. I., Schouten, S., and Stuut, J.-B. W., 2017. Downward particle fluxes of biogenic matter and Saharan dust across the equatorial North Atlantic. *Atmosphere Chemistry Physics* 17, 6023–6040, <https://doi.org/10.5194/acp-17-6023-2017>
- Jordan, R.W., Abe, K., Cruz, J., Eriksen, R., **GUERREIRO, C.V.**, Hagino, K., Heldal, M., Hernández-Becerril, D.U., Malinverno, E., Nishida, S., Patil, S.M., Süpraha, L., Thomsen, H.A., Triantaphyllou, M.V., Young, J.R., 2016. Observations on the morphological diversity and distribution of two silicious nannoplankton genera, *Hyalolithus* and *Petasaria*. *Micropaleontology* 61 (6), 439-455, <http://www.jstor.org/stable/44511369>
- GUERREIRO, C.V.**, Cachão, M., Pawlowsky-Glahn, V., Egozcue, J.J. Oliveira, A., Rodrigues, A., 2015b. COMpositional Data Analysis (CODA) as a tool to study the (paleo)ecology of coccolithophores from the coastal-neritic settings off central Portugal. *Sedimentary Geology* 319, 34-46, <https://doi.org/10.1016/j.sedgeo.2015.01.012>
- GUERREIRO, C.V.**, De Stigter, H., Cachão, M., Oliveira, A., Rodrigues, A., 2015a. Coccoliths from recent sediments of the Central Portuguese Margin: taphonomical and ecological inferences. *Marine Micropaleontology* 114, 55-68, <https://doi.org/10.1016/j.marmicro.2014.11.001>
- GUERREIRO, C.V.**, Sá, C., De Stigter, H., Oliveira, A., Cachão, M., Borges, C., Cros, L., Quaresma, L., Santos, A.I., Fortuño, J.M., Rodrigues, A., 2014. Influence of the Nazaré Canyon, central Portuguese margin, on late winter coccolithophore assemblages. *Deep Sea Re. II: Topical Studies in Oceanography* 104, 335-358, <https://doi.org/10.1016/j.dsr2.2013.09.011>
- GUERREIRO, C.V.**, Oliveira, A., De Stigter, H., Cachão, M., Sá, C., Borges, C., Cros, L., Quaresma, L., Santos, A.I., Fortuño, J.M., Rodrigues, A., 2013. Late winter coccolithophore bloom off central Portugal in response to river discharge and upwelling. *Continental Shelf Research* 59, 65 – 83, <https://doi.org/10.1016/j.dsr2.2013.09.011>
- GUERREIRO, C.V.**, Oliveira, A., Rodrigues, A., 2009b. Shelf-break canyons versus "Gouf" canyons: a comparative study based on the silt-clay mineralogy of bottom sediments from Oporto, Aveiro and Nazaré canyons (NW off Portugal). *Journal of Coastal Research* SI 56, ISSN 0749-0258, 722 – 726, <http://www.jstor.org/stable/25737673>
- GUERREIRO, C.V.**, Rosa, F., Oliveira, A., Cachão, M., Fatela, F., Rodrigues, A., 2009a. Calcareous nannoplankton and benthic foraminiferal assemblages from the Nazaré Canyon (Portuguese continental margin): preliminary results. *IOP Conference Series: Earth Environmental Science* 5 012004. 11pp. <https://doi.org/10.1088/1755-1307/5/1/012004>

GUERREIRO, C.V., Rodrigues, A., Duarte, J., Oliveira, A., Taborda, R., 2007. Bottom sediment signature associated with the Oporto, Aveiro and Nazaré submarine canyons (NW off Portugal). *Thalassas*, 23 (1), 9 – 18,

GUERREIRO, C., Cachão, M., Drago, T., 2005. Calcareous nannoplankton as a tracer of the marine influence on the NW coast of Portugal over the last 14 000 years. *Journal of Nannoplankton Res.*, 27(2), 159-172, <https://doi.org/10.58998/jnr2107>

C. CURATED DATA REPOSITORIES [21]

GUERREIRO, C.V., Cros, L., Pinto, C., Nunes, T.J., 2023. Coccolithophore living communities from CTD samples taken during JR18001 (AMT28) in the North and Equatorial Atlantic Ocean between September and October 2018. NERC EDS [British Oceanographic Data Centre](#) (BODC) NOC,

de Vries, J. C., Monteiro, F., Andruleit, H., Böckel, B., Baumann, K-H, Cerino, F., Charalampopoulou, A., Cepek, M., Cros, L., D'Amario, B., Daniels, C. J, Dimiza, M. D., Estrada, M., Eynaud, F., Giraudeau, J., Godrijan, J., **GUERREIRO, C.V.**, et al., 2020. Global SEM coccolithophore abundance compilation. [PANGAEA](#).

GUERREIRO, C.V., Baumann, K-H., Brummer, G-JA et al., 2022. Coccolith_carbonate species fluxes and environmental data from sediment trap site CB. [PANGAEA](#).

GUERREIRO, CV, Baumann, K-H, Brummer, G-JA et al., 2022. Coccolith_carbonate species fluxes and environmental data from sediment trap site M1U. [PANGAEA](#).

GUERREIRO, CV, Baumann, K-H, Brummer, G-JA et al., 2022. Coccolith_carbonate species fluxes and environmental data from sediment trap site M2U. [PANGAEA](#).

GUERREIRO, CV, Baumann, K-H, Brummer, G-JA et al., 2022. Coccolith_carbonate species fluxes and environmental data from sediment trap site M4U. [PANGAEA](#).

GUERREIRO, C.V., Baumann, K-H, Brummer, G-JA, Korte, L.F., Sá, C., Stuut, J-B W., 2022. Coccolith export fluxes and environmental data from sediment trap CB. [PANGAEA](#).

GUERREIRO, C.V., Baumann, K-H, Brummer, G-J A, Korte, L.F., Sá, C., Stuut, J-B, 2022. Coccolith export fluxes and environmental data from sediment trap M1U. [PANGAEA](#).

GUERREIRO, C.V., Baumann, K-H, Brummer, G-J A, Korte, L.F., Sá, C., Stuut, J-B W., 2022. Coccolith export fluxes and environmental data from sediment trap M2U. [PANGAEA](#).

GUERREIRO, C.V., Baumann, K-H., Brummer, G-J A., Korte, L.F., Sá, C., Stuut, J-B W. 2022. Coccolith export fluxes and environmental data from sediment trap M4U. [PANGAEA](#).

Korte, L., Brummer, G-J., van der Does, M., **GUERREIRO, C.V.**, Mienis, F., Munday, C., Ponsoni, L., Schouten, S., Stuut, J-B, 2020. Bulk particle composition and mass flux of sediment trap 13M4. [PANGAEA](#).

Korte, L., Brummer, G-J., van der Does, M., **GUERREIRO, C.V.**, Mienis, F., Munday, C., Ponsoni, L., Schouten, S., Stuut, J-B, 2020. Satellite-derived euphotic depth for site 13M4. [PANGAEA](#).

Korte, L., Brummer, G-J., van der Does, M., **GUERREIRO, C.V.**, Mienis, F., Munday, C., Ponsoni, L., Schouten, S., Stuut, J-B, 2020. Satellite-derived data for site 13M4. [PANGAEA](#).

Korte, L., Brummer, G-J, van der Does, M., **GUERREIRO, CV**, Mienis, F., Munday, C., Ponsoni, L., Schouten, S., Stuut, J-B, 2020. Satellite-derived euphotic depth for site 13M5. [PANGAEA](#).

Korte, L., Brummer, G-J., van der Does, M., **GUERREIRO, C.V.**, Mienis, F., Munday, C., Ponsoni, L., Schouten, S., Stuut, J-B, 2020. Satellite-derived data for site 13M5. [PANGAEA](#).

Korte, L., Brummer, G-J., van der Does, M., **GUERREIRO, C.V.**, Mienis, F., Munday, C., Ponsoni, L., Schouten, S., Stuut, J-B, 2020. Surface Chl a concentrations of the western tropical North Atlantic where mooring sites M4 and M5 were located. [PANGAEA](#).

GUERREIRO, C.V., 2019. Modern coccolithophore (calcareous nannoplankton) communities in the Nazaré Canyon region (W off Portugal). EMODnet, [Data Ingestion Portal](#).

GUERREIRO, CV, Baumann, K-H, Brummer, G-JA et al., 2017. Coccolith export fluxes from sediment trap M2U. [PANGAEA](#).

GUERREIRO, CV, Baumann, K-H, Brummer, G-JA et al., 2017. Environmental parameters from sediment trap M2U. [PANGAEA](#).

GUERREIRO, CV, Baumann, K-H, Brummer, G-JA et al., 2017. Coccolith export fluxes from sediment trap M4U. [PANGAEA](#).

GUERREIRO, CV, Baumann, K-H, Brummer, G-JA et al., 2017. Environmental parameters from sediment trap M4U. [PANGAEA](#).

D. OTHER PUBLICATIONS [6]

Miller, B., Marandino, C. and the SOLAS Scientific Steering Committee (eds.) (2025, submitted): SOLAS 2025- 2035: Science Plan and Organisation. SOLAS International Project Office.

GUERREIRO, C.V., 2025. [SOLAS Portugal Report](#) for the year 2024 and future activities, 6 pp

GUERREIRO, C.V., 2024. [SOLAS Portugal Report](#) for the year 2023 and future activities, 10 pp.

GUERREIRO, C.V., 2023. [SOLAS Portugal Report](#) for the year 2022 and future activities, 10 pp.

GUERREIRO, C. V., et al., 2021. Influence of dust on the export production of calcifying phytoplankton (coccolithophores): implications for the biological carbon pump. SOLAS [Event Report 20](#) (Workshop on Iron at the Air-Sea Interface), October 2021, p. 6-9.

GUERREIRO, C.V., Duarte, J., Rodrigues, A., Taborda, R., 2007. Os Enigmáticos Canhões Submarinos da Plataforma Continental Portuguesa, Resultados Preliminares do Projecto DEEPCO. [Anais do Instituto Hidrográfico](#), 169–182.

E. SCIENTIFIC CRUISE REPORTS [4]

Arístegui, J. **GUERREIRO, C.V.** and participants, 2025. Cruise Report “OceanICU 2025”. PROJECT : “OceanICU: Improving Carbon Understanding” 17 March – 18 April 2025 (Walvis Bay, Namibia – Las Palmas, Canary Islands), 62 pp.

Stuut, J-B, **GUERREIRO, C.V.** and participants, 2023. Cruise report and preliminary results (64PE514) DUST2023, 6–27 March 2023 (Mindelo, Cabo Verde – Malaga, Spain), 51 pp.

Stuut, J.-B., **GUERREIRO, C.V.** and participants, 2016. [Cruise report](#) and preliminary results (JC134). DUSTTRAFFIC IV: Transatlantic fluxes of Saharan dust, March–April 2016 (St. Johns, Antigua – Sta. Cruz, Tenerife, Spain), 101 pp.

Zonneveld, K., **GUERREIRO, C.V.** and participants, 2017. Aerobic Degradation of particulate Organic Matter and benthic microbial turnover rates reflecting ocean redox conditions off NW Africa (ADOMIS). [Cruise Report](#) N° MSM48, 2–25 November 25, 2015 - Ponta Delgada (Portugal) - Las Palmas (Spain). MARIA S. MERIAN-Berichte, DFG-Senatskommission für Ozeanographie, MSM48, 51 pp,

INVITED TALKS, LECTURES AND EVENTS

GUERREIRO, C.V. et al. 2025. Impacts of aeolian dust deposition in the ocean: a coccolithophore perspective. Invited speaker for a **Keynote Presentation** at the 4th Advances in Coccolithophore Research Meeting 9–11 September 2025, Plymouth, UK.

GUERREIRO, C.V., 2025. Tracing the biogeochemical footprint of desert dust in the ocean: insights from Calcareous nannoplankton. Invited lecturer for the Earth System Summer School, *Land-Atmosphere-Ocean interactions in a Changing Planet*, University of Évora, Portugal.

GUERREIRO, C.V., 2024. Aeolian dust deposition in the ocean: a calcifying phytoplankton perspective. **Invited Plenary Keynote presentation** on the SOLAS (Surface Ocean – Lower Atmosphere Interactions Study) Core Theme “Atmospheric deposition and ocean biogeochemistry” at 9th SOLAS Open Science Conf, 10–14 Nov, Goa, India.

GUERREIRO, C.V., 2024. Coccolithophore productivity vs. (paleo)ecological record: from the Iberian Margin to the open Atlantic Ocean. Seminar Iberian Atlantic Margin, IPMA, Lisbon, 3 June 2024.

GUERREIRO, C.V., 2024. Response of coccolithophore communities to oceanographic and atmospheric processes across the North- and Equatorial Atlantic. Grupo de Botânica Marinha, MARE, 23 May 2024

- GUERREIRO, C.V.**, 2024. Invited lecturer: “Calcareous nannoplankton: a journey from the Nazaré Canyon to Antarctica”. Seminar for Marine Geology, 3rd year BSc in Geology, U Coimbra, 8 May (online)
- GUERREIRO, C.V.**, 2023. **Invited Early Career Researcher** to participate on the SOLAS 3.0 Scoping Workshop, Sep 25–28, Xiamen, China.
- GUERREIRO, C.V.**, 2023. Invited speaker: “How marine phytoplankton help the oceans to absorb CO₂ from the atmosphere”. Conference *A sea of opportunities*, organized by the City Hall of Torres Vedras at the Environmental Interpretation Centre of the Local Natural Reserve Foz Azul, 8 June, Portugal.
- GUERREIRO, C.V.**, 2023. Invited speaker: “Chasing the effects of dust across the Atlantic Ocean: a coccolithophore perspective”. Webinar *Ocean Changes: a plankton story, from open waters to the lab*, hosted by HIPÁCIA – Association of Italian Researchers in Portugal, 14 April (online).
- GUERREIRO, C.V.**, 2022. **Invited Researcher to attend the All-Atlantic Ocean Research Alliance 2022 Forum**, National Academy of Sciences, Washington DC, USA, [including Side Event on “Research Cooperation from Pole to Pole”, hosted by the Portuguese Embassy in Washington DC], 12-14 July.
- GUERREIRO, C.V.**, 2022. Invited speaker: “Influence of dust on the export production of calcifying phytoplankton (coccolithophores) between NW Africa and the Caribbean: implications for the biological carbon pump”. NANNOTALKS, International Association of Nannoplankton (INA) 24 June.
- GUERREIRO, C.V.**, 2022. Invited speaker: “Influence of dust on the export production of calcifying phytoplankton (coccolithophores) between NW Africa and the Caribbean: implications for the biological carbon pump”, PaleoForum, Instituto do Mar e da Atmosfera (IPMA), 21 June (online)
- GUERREIRO, C.V.**, 2022. Invited speaker: “Influence of dust on the export production of calcifying phytoplankton (coccolithophores) between NW Africa and the Caribbean: implications for the biological carbon pump”, oral presentation at the **IMPECAF/ROADMAP Projects Workshop on “Extreme events in the atmosphere and the ocean”**, IDL Library Room, Lisbon, 14 March (hybrid).
- GUERREIRO, C.V.**, 2022. Invited speaker: “Influence of dust on coccolithophores species between NW Africa and the Caribbean: implications for the biological carbon pump”, Solid Earth Seminars, Instituto Dom Luiz, 19 January (online).
- GUERREIRO, C.V.**, 2021 – Invited speaker: “Calcareous nanofossils: a journey from the Douro to Antarctica”, XIX EJIP (*Encuentro de Jóvenes Investigadores en Paleontología*), Coimbra (Portugal), 12-15 May (online).
- GUERREIRO, C.V.**, 2018. Invited speaker: “Transatlantic gradients in coccolithophore species fluxes: influence of the thermocline depth, Amazon water and Saharan dust”. **Seminar at Vrije University of Amsterdam**, The Netherlands, 15-16 October.
- GUERREIRO, C.V.**, 2018. Invited speaker: “Transatlantic gradients in coccolithophore species fluxes: influence of the thermocline depth, Amazon water and Saharan dust” - **Colloquium in the Lecture Hall of the Royal Netherlands Institute for Sea Research (NIOZ)**, 18 October.
- GUERREIRO, C.V.**, 2018. Invited speaker: Meeting of MSCA research fellows organized by the Research Executive Agency of the EU. Natural History and Science Museum, Lisbon, Portugal, 28 September.
- GUERREIRO, C.V.**, 2013. Invited speaker: “(Paleo)ecology of coccolithophores in the submarine canyons of the central Portuguese continental margin: environmental, sedimentary and oceanographic implications”, Portuguese Hydrographic Institute, Lisbon, Portugal, 20 December.
- GUERREIRO, C.V.**, 2011. Invited speaker: “Compositional data analysis as a potential tool to study the (paleo)ecology of calcareous nannoplankton from the Central Portuguese submarine canyons (W off Portugal)” – **Seminar at the Universitat Politècnica de Catalunya (UPC)**, Barcelona, May.
- GUERREIRO, C.V.**, 2008. Invited speaker: “Nanoplâncton calcário: traçador da (paleo)ecologia e da dinâmica sedimentar do Canhão da Nazaré”. Seminar “Encontros do Mar, da Terra e das Gentes”, Nazaré, Portugal.
- GUERREIRO, C.V.**, 2007. Invited speaker: “EU-project HERMES related scientific research developed by the Marine Geology Division (Hydrographic Institute)”, Sea and Arts National Fair of Nazaré, Portugal.

GRANTS AND AWARDS

- 2022** Poster “Understanding the response of primary producers to climate change in Antarctica” (Ferreira et al., 2022). Honourable Mention by the Mirpuri Foundation Ocean Award.
- 2020** FCT CEEC Individual Grant (“Stimulus of Scientific Employment”) 236.201,39 €.
- 2018** Travel grant for the PAGE-DICE workshop (The Role of Dust in Climate Change: a biogeochemistry perspective), Las Cruces, Chile, 1800 USD.
- 2018** European Marie Skłodowska-Curie Action (**MSCA** H2020 grant nº 796802), 149 k€.
- 2015** COFUND Marie Skłodowska-Curie Action (EU FP7 **MSCA** COFUND grant nº. 600411), 135 k€.
- 2014** Best Poster Presentation, 16th Conference of the International Association of Mathematical Geosciences (IAMG), October 2014, New Delhi, India.
- 2014** Travel grant for the 16th Conference of the International Association of Mathematical Geosciences (IAMG), October 2014, New Delhi (India), 1000 USD.
- 2014** Mathematical Geosciences Student Award, IAMG and Springer, 2500 USD.
- 2009** PhD Grant from the Portuguese Science Foundation, 58 k€.
- 2006** Best Student Oral Presentation, 11th Conference of the International Nannoplankton Association (INA), Lincoln, Nebraska, USA.
- 2004** Best Student Poster Presentation, 10th Conference of the INA, Lisbon, Portugal.