

# CURRICULUM VITAE

**Name:** Dulce da Silva Oliveira

**Birthdate:** 27/02/1983

**Citizenship:** Portuguese

**Address:** Centro de Ciências do Mar do Algarve-CCMAR, Univ. do Algarve, Campus de Gambelas, 8005-139 Faro, and Instituto Português do Mar e da Atmosfera-IPMA, Avenida de Brasília 6, 1449-006 Lisboa, Portugal

**Phone:** +351- 21 302 7014

**Email:** dulce.oliveira@ipma.pt; dulce\_oliveiraa@hotmail.com

**Ciência ID:** A119-CA60-3C50

**Scopus ID:** 56688169500

**Orcid:** <http://orcid.org/0000-0002-3016-532X>



## Synopsis of the scientific and curricular path

D. Oliveira graduated in Marine Biology and Biotechnology from the Polytechnic Institute of Leiria, PT, (2006), has a post-graduation in Quality Management and Food Safety from Lusófona Univ., PT, (2009), a MSc in Marine Sciences from Lisbon Univ., PT, (2012) and a PhD in Marine Sedimentology and Paleoclimate from Bordeaux Univ., FR, (2017). To advance our understanding of Earth's responses to natural and human-induced changes, her research has been primarily focused on past vegetation responses to climatic forcings in regions highly sensitive to climate change. D. Oliveira initiated her scientific career in 2010 as FCT project CLIMHOL fellow, while doing her MSc (final grade 18/20). In 2013 she was awarded a FCT doctoral grant (4th among 61 applicants) to develop her work plan between IDL-Lisbon Univ., CCMAR (PT) and EPHE, EPOC-Bordeaux Univ. (FR). After PhD defense in May 2017, she earned a short-term post-doc position (Nov-Dec 2017) at Bordeaux Univ., followed by a research post-doc grant in the framework of the FCT project ULTImATum at IPMA (PT). In May 2019 started an FCT-CEECIND young researcher contract (500 selected from 4600 applicants) with CCMAR (PT) to investigate past Indian vegetation and monsoon response to climate variability. To complement this contract, in 2021 she was awarded the FCT exploratory project INDRA to focus on key glacial-interglacial cycles of the Middle Pleistocene (2021-2023). Author/co-author of 18 publications in ISI journals since 2015, of which 3 published in major multidisciplinary scientific journals (IF >4: *Climate Dynamics*-first author, *Quaternary Science Reviews*-first author, *Frontiers in Plant Science*). Her work has awarded her 6 prizes, including the L'Oréal Medal of Honour for Women in Science (2017), the Alumni Career Award by Polytechnic Institute of Leiria (2023) and the Lewis Penny Medal by the Quaternary Research Association (2024), and 15 grants to participate in international scientific meetings. Participation in 13 research projects (4 internationals, 7 nationals, 2 joint programs) and membership of the international pollen working group IODP EXP 339 and EXP 353, provided her the opportunity to establish a fruitful network of international collaborations, particularly with French, Belgium, German, South Korean, and Indian institutions. Conscientious of the importance of dissemination and outreach, D. Oliveira has been very active in this domain, participating in national and international scientific meetings with 103 presentations (45: author; 58: co-author) and in the organization of several conferences. She has also been involved in teaching, supervising students, various outreach initiatives such as IPMA-Escolas for 1st-grade students, and she is co-responsible for the scientific Paleo-Forums organization in the Marine Geology and Georesources Division (DivGM) at IPMA, PT (since 2014).

## Area of scientific interest

Paleoclimate; European vegetation history; Marine palynology; Direct land-sea comparison; Orbital and millennial climate variability; Quaternary.

## Present position

---

May 2019 - to present: Junior researcher at Centro de Ciências do Mar do Algarve (CCMAR) and Instituto Português do Mar e da Atmosfera (IPMA), Portugal. Project IMoVe - Impacts of climate change on the Indian monsoon and vegetation across the Early-Middle Pleistocene transition (CEECIND/02208/2017).

## Education

---

- May 2017: Ph.D. in Science and Environment, specialty in Marine Sedimentology and Paleoclimate, Bordeaux Univ. (FR).
- June 2012: M.Sc. in Marine Sciences, Lisbon Univ. (PT). Final grade 18/20.
- October 2009: Post-graduation in Food Safety-Quality Management, Lusófona Univ. (PT). Final grade 18/20.
- August 2006: 1<sup>st</sup> Degree in Marine Biology and Biotechnology, Polytechnic Institute of Leiria (PT). Final grade 15/20.

## Professional experience

---

- February 2018 - April 2019: Post-Doc research grant in the framework of the project ULTImATum "Understanding past climatic instabilities in the North Atlantic Region" at IPMA, PT.
- September 2017 - December 2017: Post-Doc position in the framework of the project INSU-IMAGO MICMAc "Réponse de la Mousson Indienne à la variabilité Climatique au cours du dernier Million d'Années" at UMR-CNRS 5805 EPOC (Environnements et Paléoenvironnements Océaniques) - Bordeaux Univ., FR.
- April 2013 - May 2017: Ph.D. fellowship from the FCT. Host institutions: EPHE, EPOC-Bordeaux Univ. (FR), CCMAR-Algarve Univ. (PT), Dom Luiz Institute (IDL)-Lisbon Univ. (PT), and IPMA, PT. Supervision: Dr. Maria Sánchez Goñi (FR), Dr. Ricardo Trigo (PT), and Dr. Filipa Naughton (PT).
- September 2010 - March 2013: Research Fellow (BI) in the project "Holocene climatic variability in the North Atlantic and adjacent landmasses: land-sea direct correlation-CLIMHOL" at UGM - LNEG (Unidade de Geologia Marinha - Laboratório Nacional de Energia e Geologia), PT.
- March 2009 - August 2010: New product development of Sonae Continente private-label brand. Mérieux NutriSciences Corporation (former Silliker Group Corporation), Sonae MC, Lisbon, PT.
- November 2006 - March 2009: Quality Assurance/Quality Control technician of Continente private-label products at Modis Azambuja – Modelo e Continente Hipermercados S.A., Lisbon, PT.
- April 2006 - July 2006: Aquaculture. Hatchery production and farming of sea bream (*Sparus aurata*). Farming of sea bass (*Dicentrarchus labrax*). Timar - Culturas em Água, Lda. Zimbral, Tavira, PT.
- August 2005 - December 2005: Microbiological Analysis Laboratory - Food Microbiology Technician at the Microbiology Laboratory, Univates Univ., Rio Grande do Sul, BR.

## Research interests

---

- Long-term and millennial-scale environmental changes in Europe and North America during the present interglacial and last deglaciation, with foci on the Iberian Peninsula, SW France, and Cape Hatteras region.
- Intensity and climate variability of past warm periods considered as analogues for the projected global warming, namely Marine Isotopic Stages 11 and 31, in climate-sensitive regions as the Mediterranean.
- Forcing mechanisms and regional expression of the Holocene and its best orbital interglacial analogues, MIS 11c and MIS 19c, on SW Europe's climate and vegetation as revealed by comparison of proxy-based reconstructions and climate model experiments.
- Impacts of insolation, greenhouse gases (GHGs), and ice-sheets in northern subtropical regions during the cool interglacial MIS 13: data-model approach.
- Indian vegetation and Summer Monsoon response to climate variability during the past one million years.

## Awards

---

- 2024 - Lewis Penny Medal by the Quaternary Research Association in recognition of excellence in the field of Quaternary research.
- 2023: Alumni Career Award by Polytechnic Institute of Leiria (IPL) that distinguishes former students who demonstrate outstanding professional and civic accomplishments.
- 2018: Silver Medal for Scientific Achievements by the Municipality of Leiria.
- 2018: L'Oréal Portugal Medal of Honor for Women in Science from L'Oréal, Portuguese Science Foundation (FCT) and UNESCO.
- 2017: Best oral communication at the Mediterranean Palynology Symposium, 4-6 September 2017, Barcelona, SP. Award by the Mediterranean Palynological Societies.
- 2005: Outstanding student scholarship from the Polytechnic Institute of Leiria (IPL), PT, to participate in an exchange program of Biological Sciences at the Univ. of Univates, BR, during six months.

## Travel and accommodation awards

---

- 2023 : XXI Congress of the International Union for Quaternary Research (INQUA), Sapienza University of Rome, Italy, 13 to 21 July 2022. Awarded by the International Union for Quaternary Research and Quaternary Research Association (QRA).
- 2021: European Geosciences Union (EGU) General Assembly, vEGU21, gather online. Award by Association des Palynologues de Langue Française, L'APLF and Association Française pour l'Etude du Quaternaire, AFEQ-CNF INQUA.
- 2019: XX Congress of the International Union for Quaternary Research (INQUA), Dublin, Ireland. Award by INQUA congress and AFEQ-CNF INQUA.
- 2019: Mediterranean Palynology Symposium (MedPalyno) 2019, Bordeaux, France. Award by L'APLF.
- 2018: EGU General Assembly, Vienna, Austria.
- 2017: MedPalyno 2017, Barcelona, Spain. Award by AFEQ-CNF INQUA and L'APLF.
- 2017: 5<sup>th</sup> PAGES Open Science Meeting, Zaragoza, Spain. Award by PAGES and AFEQ-CNF INQUA.
- 2015: XIX INQUA Congress, Quaternary Perspectives on Climate Change, Natural Hazards and Civilization, Nagoya, Japan. Award by INQUA congress and L'APLF.
- 2014: European Consortium for Ocean Research Drilling (ECORD) scholarship for outstanding young scientists to attend the 11<sup>th</sup> Urbino Summer School in Paleoclimatology, Univ. of Urbino, Italy.

## Participation in national and international research projects

---

**13.** 2022- 2023: Portuguese FCT INDRA project “Indian monsoon and vegetation dynamics: lessons from two contrasting glacial-interglacial cycles of the Middle Pleistocene”, led by D. Oliveira (CCMAR and IPMA, PT). <https://www.ccmар.ualg.pt/project/indra>.

**12.** 2022- 2025: Portuguese FCT- project Hydroshifts “Understand abrupt hydroclimate shifts in the North Atlantic mid-latitudes”, led by Filipa Naughton (IPMA, PT).

**11.** 2019- 2025: Portuguese FCT- CEECIND project IMoVe “Impacts of climate change on the Indian monsoon and vegetation across the Early-MPT: New insights from eastern Indian margin”, led by D. Oliveira (CCMAR and IPMA, PT).

**10.** 2018-2021: Portuguese FCT project WarmWorlds “Understand the warm periods in the last 1.5 Ma”, led by Teresa Rodrigues (IPMA, PT).

**9.** 2018-2021: FCT R&D project HOLMODRIVE “North Atlantic Atmospheric Patterns influence on Western Iberia Climate: From the Lateglacial to the Present” led by Armand Hernández (IDL and Lisbon Univ., PT).

**8.** 2015-2020: Portuguese FCT project ULTImATum “Understanding past climatic instabilities in the North Atlantic Region” led by Filipa Naughton (IPMA, PT).

7. 2017-2018: French project CNRS-INSU (LEFE/IMAGO) MICMAc "Réponse de la Mousson Indienne à la variabilité Climatique au cours du dernier Million d'Années", led by Philippe Martinez (Bordeaux Univ., FR).
6. 2013-2017: D. Oliveira FCT Ph.D. project "Understanding warm periods within and after the Mid Pleistocene Transition (MIS 31 and 11) in the Iberian Peninsula". Host institutions: EPHE, EPOC-Bordeaux Univ. (FR), CCMAR-Algarve Univ. (PT), IDL-Lisbon Univ. (PT), and IPMA (PT).
5. 2015-2017: South Korean and French project PHC STAR MEDKO "Abrupt climate events in the past Mediterranean and Korean basins", Bordeaux Univ. (FR) and Univ. of Hanyang (South Korea), led by Maria F. Sanchez Goñi (EPHE, EPOC-Bordeaux Univ., FR) and Shin Kyoung-Hoon (Hanyang Univ., South Korea).
4. 2015-2016: French project AO-INSU/LEFE PuLSE "Understanding Paleoenvironmental instabilities in the Southwestern European region", led by Stephanie Desprat (EPHE, EPOC-Bordeaux Univ., FR).
3. 2013-2016: French project INSU-IMAGO WarmClim "Understanding warm periods by integrating North Atlantic land-sea-ice palaeoclimatic records with inverse modeling", led by Maria F. Sanchez Goñi (EPHE, EPOC-Bordeaux Univ., FR).
2. 2010-2013: Portuguese FCT project CLIMHOL "Holocene climatic variability in the North Atlantic and adjacent landmasses: land-sea direct correlation", led by Filipa Naughton (IPMA, PT).
1. 2008-2011: Spanish and Portuguese project "Programa de cooperação transfronteiriça Portugal-Espanha" NATURA MIÑO-MINHO (INTERREG B BI/0234): Valorización de los recursos naturales de la cuenca hidrográfica del Miño-Minho", led by Fátima Abrantes (IPMA, PT).

## Publications

---

### Theses

- May 2017: Ph.D. thesis: Understanding warm periods within and after the Mid Pleistocene Transition (MIS 31 and 11) in the Iberian Peninsula. 292 p. (<http://www.theses.fr/2017BORD0598>).
- June 2012: M.Sc. thesis: Vegetation response to Holocene climate variability in SW Europe. 159 p. (<http://repositorio.ul.pt/handle/10451/8623>).

### Peer-reviewed journals

18. Candy, I., [Oliveira, D.](#), Parkes, D., Sherriff, J., Thornalley, D. 2023. Marine Isotope Stage 11c in Europe: Recent advances in marine-terrestrial correlations and their implications for interglacial stratigraphy. *Boreas*. Manuscript accepted for publication.
17. Hernandez, A., Saez, A., Santos, R. N., Rodrigues, T., Martin-Puertas, C., Gil-Romera, G., Abbott, M., Carballeira, R., Costa, P. J. M., Giralt, S., Gomes, S. D., Griffone, M., Ibanez-Insa, J., Leira, M., Moreno, J. C., Naughton, F., [Oliveira, D.](#), Raposeiro, P. M., Trigo, R. M., Vieira, G., Ramos, A. M., 2023. The timing of the deglaciation in the Atlantic Iberian mountains: Insights from the stratigraphic analysis of a lake sequence in Serra da Estrela (Portugal). *Earth Surface Processes and Landforms*. <https://doi.org/10.1002/esp.5536>.
16. Santos, R. N., Schefuß, E., Cordeiro, L. G., [Oliveira, D.](#), Hernández, A., Ramos, A. M., Rodrigues, T., 2022. Leaf wax biomarkers of a high-mountain lake area in western Iberia—Implications for environmental reconstructions. *Frontiers in Environmental Science*, 10. <https://doi.org/10.3389/fenvs.2022.994377>
15. Zorzi, C., Desprat, S., Clément, C., Thirumalai, K., [Oliveira, D.](#), Anupama, K., Prasad, S., Martinez, P., 2022. When eastern India oscillated between desert versus savannah-dominated vegetation. *Geophysical Research Letters*, 49, e2022GL099417. <https://doi.org/10.1029/2022GL099417>.
14. Penaud, A., Eynaud, F., Etourneau, J., Bonnín, J., de Vernal, A., Zaragosi, S., Kim, J.-H., Kang, S., Gal, J.-K., [Oliveira, D.](#), Waelbroeck, C., 2022. Ocean productivity in the Gulf of Cadiz over the last 50 kyr. *Paleoceanography and Paleoclimatology*, 37, e2021PA004316. <https://doi.org/10.1029/2021PA004316>.
13. González-Lanchas, A., José-Abel, F., Sierro, F.J., Sánchez Goñi, M.F., Rodrigues, T., Ausin, B., [Oliveira, D.](#), Naughton, F., Marino, M., Maiorano, P., Balestra, B., 2021. Control mechanisms of Primary Productivity revealed by coccolithophores from Marine Isotope Stage (MIS) 12 to 9 at the Shackleton Site U1385. *Paleoceanography and Paleoclimatolog* 36, 6, <https://doi.org/10.1029/2021PA004246>.

12. González-Lanchas, A., José-Abel, F., Sierro, F.J., Bárcena, M.A., Rigual-Hernández, A., Oliveira, D., Azibeiro, L.A., Marino, M., Maiorano, P., Cortina A., Cacho, I., Grimalt, J.O., 2020. A new perspective of the Alboran Upwelling System reconstruction during the Marine Isotope Stage 11: A high-resolution coccolithophore record. *Quaternary Science Reviews* 245, 106520, <https://doi.org/10.1016/j.quascirev.2020.106520>.
11. Oliveira, D., Desprat, S., Yin, Q., Rodrigues, T., Naughton, F., Trigo, R., Qianqian, S., Grimalt, J.O., Alonso-Garcia, M., Voelker, A.H.L., Abrantes, F., Sánchez Goñi, M.F., 2020. Combination of insolation and ice-sheet forcing drive enhanced humidity in northern subtropical regions during MIS 13. *Quaternary Science Reviews* 247, 106573, <https://doi.org/10.1016/j.quascirev.2020.106573>.
10. Naughton F., Costas S., Gomes S.D., Rodrigues T., Desprat S., Bronk-Ramsey C., Salgueiro E., Sanchez Goñi M.F., Renssen H., Trigo, R., Oliveira, D., Voelker A.H.L., Abrantes F., 2019. Coupled ocean and atmospheric changes during Greenland Stadial 1 in southwestern Europe. *Quaternary Science Reviews*, 212, 108-120. <https://doi.org/10.1016/j.quascirev.2019.03.033>.
9. Oliveira, D., Desprat, S., Q. Yin, Naughton, F., Trigo, R., Rodrigues, T., Abrantes, F., Sánchez Goñi, M.F., 2018. Unraveling the forcings controlling the vegetation and climate of the best orbital analogues for the present interglacial in SW Europe. *Climate Dynamics*, 51: 667. <https://doi.org/10.1007/s00382-017-3948-7>.
8. Sánchez Goñi, M.F., Desprat, S., Fletcher, W.J., Morales-Molino, C., Naughton, F., Oliveira, D., Urrego, D., Zorzi, C., 2018. Pollen from the Deep-Sea: A Breakthrough in the Mystery of the Ice Ages. *Front. Plant Sci.* 9:38. <https://doi.org/10.3389/fpls.2018.00038>.
7. Abrantes, F., Rodrigues, T., Rufino, M., Salgueiro, E., Oliveira, D., Gomes, S., Oliveira, P., Costa, A., Mil-Homens, M., Drago, T., Naughton, F., 2017. The Climate of the Common Era off the Iberian Peninsula. *Climate of the Past*, 13, 1901-1918. <https://doi.org/10.5194/cp-13-1901-2017>.
6. Desprat, S., Oliveira, D., Naughton, F., Sánchez Goñi, M.F., 2017. Pollen in marine sedimentary archives, a key for climate studies: the example of past warm periods. «L'étude du pollen des séquences sédimentaires marines pour la compréhension du climat: l'exemple des périodes chaudes passées.» *Quaternaire*, 28(2), 259-269. <https://doi.org/10.4000/quaternaire.8102>.
5. Oliveira, D., Sanchez Goñi, M.F., Naughton, F., Polanco-Martínez, J.M, Jimenez-Espejo, F.J., Grimalt, J.O., Martrat, B., Voelker, A.H.L., Trigo, R., Hodell, D., Abrantes, F., Desprat, S., 2017. Unexpected weak seasonal climate in the western Mediterranean region in response to MIS 31, a high-insolation forced interglacial. *Quaternary Science Reviews* 161, 1–17. <https://doi.org/10.1016/j.quascirev.2017.02.013>.
4. Oliveira, D., Desprat, S., Rodrigues, T., Naughton, F., Hodell, D., Trigo, R., Rufino, M., Lopes, C., Abrantes, F., Sánchez Goñi, M.F., 2016. The complexity of millennial-scale variability in southwestern Europe during MIS 11. *Quaternary Research* 86, 373-387. <https://doi.org/10.1016/j.yqres.2016.09.002>.
3. Sánchez Goñi, M.F., Llave, E., Oliveira, D., Naughton, F., Desprat, S., Ducassou, E., Hodell, D.A., Hernández-Molina, F.J., 2016. Climate changes in south-western Iberia and Mediterranean Outflow variations during two contrasting cycles of the last 1 Myrs: MIS 31– MIS 30 and MIS 12–MIS 11. *Global and Planetary Change* 136, 18-29. <https://doi.org/10.1016/j.gloplacha.2015.11.006>.
2. Eynaud, F., Londeix, L., Penaud, A., Sánchez Goñi, M.F., Oliveira, D., Desprat, S., and Turon, J.-L., 2016. Dinoflagellate cyst population evolution throughout past interglacials: Key features along the Iberian margin and insights from the new IODP Site U1385 (Exp 339). *Global and Planetary Change* 136, 52-64. <https://doi.org/10.1016/j.gloplacha.2015.12.004>.
1. Naughton, F., Keigwin, L., Peteet, D., Costas, S., Desprat, S., Oliveira, D., de Vernal, A., Voelker, A., Abrantes, F., 2015. A 12,000-yr pollen record off Cape Hatteras — Pollen sources and mechanisms of pollen dispersion. *Marine Geology* 367, 118-129. <https://doi.org/10.1016/j.margeo.2015.06.003>.

## Scientific Reports

- 2012: Mil-Homens M, Naughton F, Costa AM, Oliveira D, Santos C, Rodrigues T, Abrantes F, Fonseca S, Serrano R. Characterization of DIVA09 – a gravity core from the Minho shelf. Project NATURA MIÑO-MINHO “Valorización de los recursos de la cuenca hidrográfica del MIÑO-MINHO” Activity 1 report – Part 2”. Unidade de Geologia Marinha – LNEG. Relatório Técnico INGMARDEP 05/2012. 47p.



## Other publications

---

- 2022: Once Upon a Time... - a Scientific Fairy Tale, Vol II. Gema Martínez Méndez, Hadar Elyashiv. Edition Temmen e.K., 2022- 3837815226, 9783837815221. 177pp. Translation to portuguese by: Aline Mega, Andreia Rebotim, Catarina Cavaleiro, Dulce Oliveira, Célia Santos, Lélia Matos, Inês Mesquita, Rebecca Borges, Rodrigo Portilho-Ramos. <https://sites.google.com/view/onceuponatime-scientific-story/about>.
- 2019: Honored in the book "Mulheres na Ciência / Women in Science" by Ciência Viva, 2019. National Agency for Scientific and Technological Culture, <http://www.cienciaviva.pt/mulheresnaciencia/index.asp>.
- 2018: Book from Inés Garbayo, María Cuaresma and Filomena Fonseca "Visualización de la actividad científica femenina en la Euroregión Algarve-Andalucía". ISBN: 9788494347160. 2018, 170 pp. [https://www.uhu.es/fexp/difusion/docs/ciencia\\_en\\_femenino\\_2.pdf](https://www.uhu.es/fexp/difusion/docs/ciencia_en_femenino_2.pdf). Oliveira, D. contribution on page 43.

## Scientific presentations (103 presentations: 45: author, 58: co-author)

---

### Oral communications and posters (as a first author)

1. D. Oliveira, 2023. Forest dynamics and climate change: insights from past interglacials. Workshop on "High and Low Latitude Climate Variability and Their Interactions Across Time Scales". Louvain-la-Neuve, Belgium, November 30th – December 1st, 2023. (Invited oral presentation)
2. D. Oliveira, P. Martinez, Q. Yin, K. Anupama, S. Prasad, R. Schneider, C. Zorzi, C. Clement, S. Desprat, 2023. Variability and forcings of Indian vegetation and summer monsoon during MIS 11, 2023. American Geophysical Union (AGU) annual meeting 2023, San Francisco, USA, December 2023. (Poster)
3. D. Oliveira, P. Martinez, Q. Yin, K. Anupama, S. Prasad, R. Schneider, C. Zorzi, C. Clement, S. Desprat, 2023. Indian vegetation response to past monsoon changes in a warm world: evidence from a pollen record of interglacial MIS 11. 4th Palaeontological Virtual Congress, 8 -22 May 2023. (Oral presentation+Poster)
4. D. Oliveira, 2023. How did I become a junior researcher at CCMAR PAGES (Past Global Changes) Early-Career-Network webinars 2023: Let's Talk About Career Opportunities. <https://www.youtube.com/watch?v=R1k9Vb6nLSk>. (Oral presentation)
5. D. Oliveira, A Deb, S Desprat, K Anupama, S Prasad, C Zorzi, Q Yin, R Schneider, M Alonso-Garcia, F Abrantes, P Martinez, 2023. Monsoon-driven vegetation changes during glacial MIS 16 in the core monsoon zone of India. XXI Congress of the International Union for Quaternary Research (INQUA), Sapienza University of Rome, Italy, 13 to 21 July 2023. (Poster)
6. D. Oliveira, P. Martinez, Q. Yin, K. Anupama, S. Prasad, R. Schneider, C. Zorzi, C. Clement, S. Desprat, 2023. Drivers of Indian vegetation and summer monsoon dynamics during MIS 11. XXI Congress of the International Union for Quaternary Research (INQUA), Sapienza University of Rome, Italy, 13 to 21 July 2023. (Poster)
7. D. Oliveira, P. Martinez, Q. Yin, K. Anupama, S. Prasad, R. Schneider, C. Zorzi, C. Clement, S. Desprat, 2023. Exploring Indian Summer Monsoon variability and vegetation changes during MIS 11. Workshop on "Interglacial Intensities" from Past Global Changes (PAGES) - working group on Quaternary interglacials (QUIGS), Grenoble France, September 19-22, 2023. (Oral presentation+Poster)
8. D. Oliveira, S. Desprat, F. Naughton, T. Rodrigues, Q. Yin, R. Trigo, F. Abrantes, D. Hodell, M.F. Sánchez-Goñi, 2022. Unlocking the secrets held by pollen in the Shackleton Site on the Iberian Margin: a snapshot on key interglacials of the last 800,000 years. Symposium on the Atlantic Iberian Margin, Bilbao, Spain, 7-9 July 2022 (Oral presentation)
9. D. Oliveira, P. Martinez, Q. Yin, K. Anupama, S. Prasad, R. Schneider, C. Zorzi, C. Clement, S. Desprat, 2022. Unraveling hydroclimate variations during MIS 11 in the Indian core monsoon zone. Portuguese Oceanography Meeting, Vieira de Leiria, Portugal, 6-7 June 2022. (Poster)
10. D. Oliveira, P. Martinez, Q. Yin, M. Alonso-Garcia, K. Anupama, S. Prasad, F. Abrantes, R. Schneider, C. Zorzi, C. Clement, S. Desprat, 2022. Indian monsoon and vegetation dynamics: lessons from two contrasting glacial-interglacial cycles of the Middle Pleistocene. Portuguese Oceanography Meeting, Vieira de Leiria, Portugal, 6-7 June 2022. (Poster)
11. D. Oliveira, 2022. Interglacial diversity and underlying climate dynamics in southern Europe over the last 800 000 years. Virtual seminars of the French Association of Palynologists (L'APLF). (Invited oral presentation)

12. D. Oliveira, P. Martinez, Q. Yin, K. Anupama, S. Prasad, R. Schneider, C. Zorzi, C. Clement, S. Desprat, 2022. Indian monsoon rainfall variability and vegetation changes during MIS 11. 14th International Conference on Paleoceanography, Bergen, Norway, 29 August-2 September 2022 (Poster)
13. D. Oliveira, S. Desprat, Q. Yin, T. Rodrigues, F. Naughton, Q. Su, J. Grimalt, M. Alonso-Garcia, A. Voelker, F. Abrantes, M. F. Sánchez Goñi, 2022. Disentangling the drivers of SW European hydroclimate variations during an interglacial 0.5 million years ago. 14th International Conference on Paleoceanography - ICP, August 29 to September 2, 2022, Bergen, Norway. (Poster)
14. D. Oliveira, 2022. Forest responses to past warm climates recorded in deep-sea sediments - lessons from the past and their relevance to the future. University of Haifa, Seminar Program of the Department of Marine Geosciences. <https://www.youtube.com/watch?v=p8cjDIZUOzs>. (Invited oral presentation)
15. Oliveira, D., 2022. Climate change: Unlocking the past to understand the future. Climate change COP27 seminars of the Second Home Cultural Programme, Time Out Market, Lisbon. (Invited oral presentation).
16. Oliveira, D., Desprat, S., Naughton, F., Rodrigues, T., Yin, Q., Trigo, R., Abrantes, F., Sánchez Goñi, M.F., 2021. Vegetation response to warm periods within and after the Mid Pleistocene Transition in the western Mediterranean. 3rd Virtual Palaeontological Congress, December 1–15th, 2021. Vlachos, E. Penélope Cruzado-C., Crespo V. D., Ríos Ibañez M., Arnal F. A. M., Herraiz J. L., Gascó-Lluna F., Guerrero-Arenas R., and Ferrón H. G. (eds) (2021). Book of Abstracts of the 3rd Palaeontological Virtual Congress, 304 pp. (Oral presentation)
17. Oliveira, D., 2021. Looking to the past to anticipate future climate change. NOVA University Lisbon, NaNu - Nanotechnology Association of NOVA School of Science and Technology (FCT/UNL). (Invited Oral presentation)
18. Oliveira, D., Desprat, S., Yin, Q., Rodrigues, T., Naughton, F., Trigo, R., Qianqian, S., Grimalt, J.O., Alonso-Garcia, M., Voelker, A.H.L., Abrantes, F., Sánchez Goñi, M.F., 2021. Enhanced humidity in SW Iberia driven by the combination of insolation and ice-sheet forcing during MIS 13 interglacial, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-11408, <https://doi.org/10.5194/egusphere-egu21-11408>, 2021. (Oral presentation)
19. Oliveira, D., 2020. Climate-driven vegetation changes in SW Europe: learning from key interglacials of the last 800,000 years. CCMAR Symposium, Algarve University, Faro, Portugal. (Oral presentation)
20. Oliveira, D., Desprat, S., Yin, Q.Z., Rodrigues, T., Naughton, F., Trigo, R., Qianqian, S., Grimalt, J.O., Alonso-Garcia, M., Voelker, A.H.L., Abrantes, F., Sánchez Goñi, M.F., 2020. Ice-sheet forcing reinforces precipitation over SW Iberia during an interglacial 500,000 years ago. “Climat et Impacts” conference, University of Paris-Saclay, Orsay, France. (Oral presentation)
21. Oliveira, D., Desprat, S., Yin, Q.Z., Rodrigues, T., Naughton, F., Qianqian, S., Grimalt, J.O., Abrantes, F., Sánchez Goñi, M.F., 2020. SW European vegetation and climate dynamics in a cooler world: insights from MIS 13 interglacial. 1-15 May 2020. Abstract book 978-84-09-20283-6, pp 45. (Oral presentation)
22. Oliveira, D., Desprat, S., Yin, Q.Z., Rodrigues, T., Naughton, F., Qianqian, S., Voelker, A.H.L., Abrantes, F., Sánchez Goñi, M.F., 2020. Intense precipitation in the western Mediterranean during the globally cool MIS 13 interglacial. UK IODP Annual Meeting online. (Poster)
23. Oliveira, D., Desprat, S., Naughton, F., Rodrigues, T., Alonso-García, M., Joan, O., Grimalt, Abrantes, F., Sánchez Goñi, M.F., 2019. Climate and vegetation imprint of the cool MIS 13 in the Iberian Peninsula. Mediterranean Palynology Symposium 2019, Bordeaux, France. (Oral presentation)
24. Oliveira, D., Desprat, S., Naughton, F., Rodrigues, T., Alonso-García, M., Grimalt, J.O., Abrantes, F., Sánchez Goñi, M.F., 2019. Climate change and vegetation dynamics during the lukewarm interglacial MIS 13 in SW Europe. 20th Congress of the International Union for Quaternary Research (INQUA), Dublin, Ireland. (Poster)
25. Oliveira, D., Naughton, F., Desprat, S., Rodrigues, T., Grimalt, J., Martrat, B., Voelker, A., Trigo, R., Polanco-Martínez, J., Hodell, D., Abrantes, F., Sánchez Goñi, M.F., 2019. The Iberian Peninsula in a warmer world: learning from Quaternary super-interglacials. Encontro de Oceanografía, Peniche. (Poster)
26. Oliveira, D., Desprat, S., Yin, Q., Naughton, F., Trigo, R., Rodrigues, T., Abrantes, F., Sánchez Goñi, M.F., 2018. Western Mediterranean vegetation and climate dynamics during the best astronomical analogues of the Holocene: evidence from a model-data comparison. European Geosciences Union (EGU) General Assembly, 8–13 April 2018, Vienna, Austria. EGU2018-12077. (Oral presentation)
27. Oliveira, D., Sanchez Goñi, M.F., Naughton, F., Polanco-Martínez, J.M., Jimenez-Espejo, F.J., Grimalt, J.O., Martrat, B., Voelker, A.H.L., Trigo, R., Hodell, D., Abrantes, F., Desprat, S., 2018. Orbital parameters controlling the western Iberian vegetation and climate during the Middle Pleistocene Transition: evidence from the extreme interglacial MIS 31. European Geosciences Union (EGU) General Assembly, Vienna, Austria. (Poster)

- 28.** Oliveira, D., Desprat, S., Yin, Q., Naughton, F., Trigo, R., Rodrigues, T., Abrantes, F., Sánchez Goñi, M.F., 2017. Unraveling the forcings controlling the magnitude and climate variability of the best orbital analogues for the present interglacial in SW Europe. In: De Linares C. & Belmonte J. (Eds.). Mediterranean Palynology Symposium, Barcelona, Spain. (Oral presentation)
- 29.** Oliveira, D., Sanchez Goñi, M.F., Naughton, F., Polanco-Martínez, J.M., Jimenez-Espejo, F.J., Grimalt, J.O., Martrat, B., Voelker, A.H.L., Trigo, R., Hodell, D., Abrantes, F., Desprat, S., 2017. Unexpected weak seasonal climate in the western Mediterranean region in response to MIS 31, a high-insolation forced interglacial. PAGES 5<sup>th</sup> Open Science Meeting, Zaragoza, Spain. (Oral presentation)
- 30.** Oliveira, D., Sanchez Goñi, M.F., Naughton, F., Polanco-Martínez, J.M., Jimenez-Espejo, F.J., Grimalt, J.O., Martrat, B., Voelker, A.H.L., Trigo, R., Hodell, D., Abrantes, F., Desprat, S., 2017. MIS 31, a globally super interglacial? Insights from a new high-resolution direct land-sea comparison from the southwestern European margin. In: De Linares C. & Belmonte J. (Eds.). Mediterranean Palynology Symposium, Barcelona, Spain. (Poster)
- 31.** Oliveira, D., Sanchez Goñi, M.F., Naughton, F., Polanco-Martínez, J.M., Jimenez-Espejo, F.J., Grimalt, J.O., Martrat, B., Voelker, A.H.L., Trigo, R., Hodell, D., Abrantes, F., Desprat, S., 2017. Unraveling western Mediterranean vegetation and climate dynamics during the super interglacial MIS 31. Ciência 2017 - Science and Technology in Portugal Meeting, Lisboa Congress Centre, Portugal. (Poster)
- 32.** Oliveira, D., Desprat, S., Rodrigues, T., Naughton, F., Hodell, D., Trigo, R., Abrantes, F., Sanchez Goñi, M.F., 2017. The complexity of millennial-scale cooling events in SW Europe during MIS 11. PAGES 5<sup>th</sup> Open Science Meeting, Zaragoza, Spain. (Poster)
- 33.** Oliveira, D., Desprat, S., Rodrigues, T., Naughton, F., Hodell, D., Trigo, R., Abrantes, F., Sánchez Goñi, M.F., 2016. Land–sea climatic variability during MIS 11 in southwestern Europe: Evidence from IODP Site U1385 (Shackleton Site). Colloque Q10 AFEQ CNF-INQUA 2016: Paléoclimats et environnements quaternaires, quoi de neuf sous le soleil? Bordeaux University, France. (Oral presentation)
- 34.** Oliveira, D., Desprat, S., Rodrigues, T., Naughton, F., Hodell, D., Trigo, R., Abrantes, F., Sánchez Goñi, M.F., 2016. The diversity of millennial-scale cooling events in southwestern Europe during MIS 11. 2<sup>nd</sup> APOCEAN - Associação Portuguesa de Oceanografia – Meeting, S. Pedro de Moel, Portugal. (Oral presentation)
- 35.** Oliveira, D., Desprat, S., Rodrigues, T., Naughton, F., Hodell, D., Trigo, R., Abrantes, F., Sánchez Goñi, M.F., 2016. The diversity of millennial-scale variability in southwestern Europe during MIS 11. Ciência 2016 - Science and Technology in Portugal Meeting, Lisboa Congress Centre, Portugal. (Poster)
- 36.** Oliveira, D., Sánchez Goñi, M.F., Naughton, F., Desprat, S., Hodell, D.A., Trigo, R., Abrantes, F., 2016. Vegetation and climatic changes during MIS 31 in southwestern Europe. 2<sup>nd</sup> APOCEAN - Associação Portuguesa de Oceanografia – Meeting, S. Pedro de Moel, Portugal. (Poster)
- 37.** Oliveira, D., Desprat, S., Rodrigues, T., Naughton, F., Hodell, D., Trigo, R., Abrantes, F., Sánchez Goñi, M.F., 2015. Marine Isotope Stages 11-12 direct land-sea comparison from the Shackleton Site U1385, IODP Expedition 339. IODP (International Ocean Discovery Program)/ECORD (European Consortium for Ocean Drilling) Portugal day, Pavilhão do Conhecimento - Ciência Viva, Lisbon, Portugal. (Poster)
- 38.** Oliveira, D., Desprat, S., Rodrigues, T., Naughton, F., Hodell, D., Trigo, R., Abrantes, F., Sánchez Goñi, M., 2015. New insights on MIS 11 climate changes at millennial time scale in southwestern Europe. XIX INQUA Congress, Quaternary Perspectives on Climate Change, Natural Hazards and Civilization, Nagoya, Japan. (Oral presentation)
- 39.** Oliveira, D., Sánchez Goñi, M.F., Naughton, F., Hodell, D., Rodrigues, T., Daniau, A.L., Eynaud, F., Trigo, R., Abrantes, F., IODP Expedition 339 Scientists Team, 2014. Understanding MIS 11 by integrating land-sea-ice records from the Shackleton site (IODP 1385, SW Iberian margin). 11<sup>th</sup> Urbino Summer School in Paleoclimatology (USSP), University of Urbino, Italy. (Poster)
- 40.** Oliveira, D., Rodrigues, T., Desprat, S., Naughton, F., Hodell, D., Daniau, A.L., Eynaud, F., Trigo, R., Abrantes, F., Sánchez Goñi, M.F., 2014. Revealing MIS 11 climatic variability in the southwestern Iberian margin: direct land-sea comparison. IODP Exp. 339 2<sup>nd</sup> post-cruise meeting, Tarifa, Spain. (Poster)
- 41.** Oliveira, D., Sánchez Goñi, M.F., Naughton, F., Hodell, D., Rodrigues, T., Daniau, A.L., Eynaud, F., Trigo, R., Abrantes, F., IODP Expedition 339 Scientists Team, 2014. Understanding MIS 11 by integrating land-sea-ice records from the Shackleton site (IODP 1385, SW Iberian margin), EGU General Assembly, Vienna, Austria. (Poster)
- 42.** Oliveira, D., Naughton, F., Trigo, R., Abrantes, F., Rodrigues, T., Voelker, A., 2014. The role of blocking events during the 8.2. ka event over the mid-latitudes if the eastern North Atlantic region. 1<sup>th</sup> APOCEAN - Associação Portuguesa de Oceanografia – Meeting, Lisbon, Portugal. (Poster)



43. Oliveira, D., Naughton, F., Trigo, R., 2013. Holocene climate variability in the southeastern Bay of Biscay. CLIMHOL Workshop: Holocene climatic variability in the North Atlantic and adjacent landmasses: land-sea direct correlation. IPMA (Instituto do Mar e da Atmosfera), Lisbon, Portugal. (Oral presentation)
44. Oliveira, D., Naughton, F., Trigo, R., Abrantes, F., Rodrigues, T., Voelker, A., 2012. The role of blocking events during the 8.2. ka event over the mid-latitudes of the eastern North Atlantic region. 7<sup>th</sup> Symposium on the Atlantic Iberian Margin (MIA), Lisbon, Portugal. (Poster)
45. Oliveira, D., Naughton, F., Trigo, R., Rodrigues, T., Jouanneau, J.M., Weber, O., 2012. Holocene climate variability in south-western France. European Geosciences Union (EGU) General Assembly, Vienna, Austria. (Oral presentation)

### **Oral communications and posters (as a co-author)**

1. C. Zorzi, S. Desprat, C. Boutreux, P. Chuet, D. Oliveira, C. Clément, P. Martinez, 2023. Response of the Indian vegetation and monsoon changes during contrasting glacial periods: the MIS 14, 10, 6 and 4-2. American Geophysical Union (AGU) annual meeting 2023, San Francisco, USA, December 2023. (Poster)
2. Q. Yin, Q. Su, Z. Wu, A. Lyu, M.F. Sánchez Goñi, D. Oliveira, Y. Zhao, 2023. Diverse response of global terrestrial vegetation to astronomical forcing, CO<sub>2</sub> and ice sheets from orbital to millennial timescales. XXI Congress of the International Union for Quaternary Research (INQUA), Sapienza University of Rome, Italy, 13 to 21 July 2023. (Invited Oral presentation)
3. C. Zorzi, S. Desprat, C. Boutreux, P. Chuet, D. Oliveira, C. Clément, P. Martinez, 2023. Response of the Indian vegetation and monsoon changes during contrasting glacial periods: the MIS 14, 10, 6 and 4-2. XXI Congress of the International Union for Quaternary Research (INQUA), Sapienza University of Rome, Italy, 13 to 21 July 2023. (Poster)
4. A. Hernández, R. Santos, T. Rodrigues, D. Oliveira, F. Naughton, J. Moreno, P. Raposeiro, A. Giralt, A. Sáez, A. Leira, G. Gil-Romera, P. Costa, R. Trigo, G. Vieira, M. Abbott, M. Griffore, S. Gomes, S. Ramos, 2023. The timing of the deglaciation in the Atlantic Iberian mountains: Insights from the stratigraphic analysis of a lake sequence in Serra da Estrela (Portugal). XXI Congress of the International Union for Quaternary Research (INQUA), Sapienza University of Rome, Italy, 13 to 21 July 2023. (Oral presentation)
5. M. Alonso-García, D. Oliveira, T. Rodrigues, E. Salgueiro, F. Naughton, A. Voelker, M.F. Sanchez-Goñi, F. Abrantes, 2023. Iberian margin climate modes: time slices from the late Pliocene to the present. CLIVAR 2023: Towards and Integrated View of Climate, Madrid, 24-26/01/2023. (Oral presentation)
6. H. Monteiro, T. Rodrigues, D. Oliveira, M. F. S. Sánchez Goñi, S. Gomes, A. Rebotim., S. Desprat S., A-L., Daniu, C. Morales Molino., F. Abrantes F., S. Toucanne., F. Naughton, 2023. Major climate changes during key glacial terminations in the North Atlantic Region. 16<sup>a</sup> edição do Encontro de Investigação Jovem da U.Porto (IJUP). (Poster)
7. F. Naughton, , T. Rodrigues, D. Oliveira, S. Gomes., C. Morales Molino, D. Hodell, S. Toucanne, M. Alonso-Garcia, F. Abrantes, F., M.F Sanchèz-Goñi, 2023. Major hydroclimate changes during key glacial periods and their terminations in southwestern Europe. XI Congresso Nacional de Geologia Coimbra. (Oral presentation)
8. Rebotim A, Oliveira D, Mega A, Borges R, Portilho-Ramos RC, Cavaleiro C, Mesquita I, Matos L, Santos C., 2022. "Once Upon a Time.... a scientific fairy tale": Using fictional stories to educate about earth, climate and ocean sciences. Encontro de Oceanografia, Vieira de Leiria, 6-7 Junho 2022. (Oral presentation)
9. A. Deb, D. Oliveira, 2022. INDRA project. Past Indian vegetation and monsoon changes during glacial MIS 16. Virtual scientific meeting PaleoForum organized by the Marine Geology and GeoResources Division at IPMA, Portugal. (Invited Oral presentation)
10. Zorzi C., Desprat S., Clément C., Thirumalai K., Oliveira, D., Krishnamurthy, A., Srinivasan, P., Martinez P., 2022. When eastern India oscillated between desert versus savannah-dominated vegetation, 2022. MagellanPlus Workshop. IODP Indian Ocean: Delving into the Past. (Oral presentation)
11. Santos, R. N., Rodrigues, T., Schefuß, E., Cordeiro, L., Naughton, F., Oliveira, D., Hernández, A., Ramos, R., 2022. Leaf waxes of a high-mountain ecosystem in Western Iberia as a tool for understanding past climatic and vegetation dynamics. online, Goldschmidt2022, 10-15 Julho 2022. (Oral presentation)
12. Zorzi C., Desprat S., Clément C., Thirumalai K., Oliveira, D., Martinez P., Clemens S., 2022. Indian vegetation and monsoon response to millennial and orbital climate variability during the last glacial period. 2022. Virtual Monsoon Seminar Series. <https://www.youtube.com/watch?v=woBwTPdqrUA>. (Invited Oral presentation)
13. Sanchez Goñi, M.F., Oliveira, D., Morales-Molino, C., Desprat, S., M. Polanco-Martinez, J., Hodell, D., Naughton, F., Rodrigues, T., 2022. The Early-Middle Pleistocene interglacials in the Iberian margin. EGU General Assembly 2022. <https://doi.org/10.5194/egusphere-egu22-3148>. (Oral presentation)

- 14.** Santos, R. N., Rodrigues, T., Schefuß, E., Cordeiro, L., Naughton, F., Oliveira, D., Hernández, A., Ramos, R., 2022. Climate and environmental changes over the last 2000 years in the Serra da Estrela, Portugal. EGU General Assembly 2022. (Oral presentation)
- 15.** Hernández, A., Santos, R., Rodrigues, T., Oliveira, D., Naughton, F., Moreno, J., Raposeiro, P., Giralt, S., Sáez, A., Leira M., Gil-Romera, G., Costa, P., Trigo, R., Vieira, G., Abbott, M., Griffone, M., Gomes, S., Ramos, A., 2022. Deglaciation timing in the Atlantic Iberian mountains: an example from lake sediments in Serra da Estrela (Portugal). European Geosciences Union, EGU22 Gather Online 23-27 Maio, 2022. (Oral presentation)
- 16.** Zorzi C., Desprat S., Clément C., Thirumalai K., Oliveira, D., Martinez P., Clemens S., 2021. Indian vegetation and monsoon response to millennial and orbital climate variability during the last glacial period. 31 May 2021. Virtual Mediterranean Palynology Societies Symposium 2021. 6th-8th September 2021. Florenzano A. & Clò E. (Eds.). 2021. Mediterranean Palynology Societies Symposium 2021. Abstracts Book. Modena, Italy. ISBN 9788894344219. (Oral presentation)
- 17.** Santos, R. N., Rodrigues, T., Schefuß, E., Naughton, F., Oliveira, D., Ramos, A., & Hernández, A., 2021. Hydroclimate reconstruction of Western Iberia over the last 3600 years - insights from lipid biomarker and specific isotope signal. European Geosciences Union, vEGU21 Gather Online (2021). Conference abstract and presentation. <https://doi.org/10.5194/egusphere-egu21-8820>. (Oral presentation)
- 18.** Clement C, Desprat S, Martinez P, Thirumalai K, Prasad S, Anupama K, Zorzi C, Oliveira D, Clemens S, 2021. Indian Vegetation and Summer Monsoon Changes across the Last Two Interglacials: The First Pollen-Based Holocene-Eemian Comparison in the Core Monsoon zone from IODP Site U1446. American Geophysical Union Fall Meeting, 13-17 December. New Orleans, LA. PP15D-0950. <https://agu.confex.com/agu/fm21/meetingapp.cgi/Paper/893279>. (Poster)
- 19.** Zorzi C., Desprat S., Clément C., Thirumalai K., Oliveira, D., Martinez P., Clemens S., 2021. Indian vegetation and monsoon response to millennial and orbital climate variability during the last glacial period. 2021. Virtual IODP Exp. 353 Science Catch up seminars. (Oral presentation)
- 20.** Santos, R. N., Rodrigues, T., Schefuß, E., Naughton, F., Oliveira, D., Ramos, A., & Hernández, A., 2021. Using sedimentary leaf waxes and specific isotope signal to infer past climate in Western Iberia. Encontro Ciência 2021. (Poster)
- 21.** Penaud, A., Eynaud, F., Etourneau, J., Bonin, J., De Vernal, A., Kim, J.-H., Kang, S., Oliveira, D., Zaragosi, S., Waelbroeck, C., 2020. Ocean Productivity control in the Gulf of Cadiz over the Last 50 Kyr BP. "Climat et Impacts" conference, University of Paris-Saclay, Orsay, France (Poster).
- 22.** Rodrigues, T., Zeng, X., Padilha, M., Oliveira, D., Grimalt, J.O., Abrantes, F., 2020. The role of obliquity forcing on the interglacial climate instabilities in the mid-latitudes of the North Atlantic. Online EGU General Assembly, Vienna, Austria. (Oral presentation)
- 23.35.** Lauterbach, S., Andersen, N., Clément, C., Desprat, D., Zorzi, C., Anupama, K., Prasad, S., Oliveira, D., Blanz, T., Thirumalai, K., Clemens, S., Martinez, P., Schneider, R., 2020. Indian subcontinent hydroclimate and vegetation changes during the last glacial reconstructed by leaf wax stable isotope and pollen analyses on sediments from IODP Site U1446, NW Bay of Bengal. Online EGU General Assembly, Vienna, Austria. (Oral presentation)
- 24.** Desprat, S., Clément, C., Zorzi, C., Martinez, P., Daniau, A.-L., Thirumalai, K., Anupama, K., Prasad, S., Oliveira, D., Schneider, R., Clemens, S., 2020. Changes in vegetation and summer monsoon rainfall in eastern India over the last 70 000 years. Conference on the Evolution of the Monsoon, Biosphere and Mountain Building in Cenozoic Asia, Washington, USA. (Poster)
- 25.** Gomes, S.D., Fletcher, W., Rodrigues, T., Oliveira, D., Sanchez-Goni, M. F., Abrantes, F., Stone, A., Naughton, F., 2019. Abrupt climate shifts during the last deglaciation in SW Iberia. 2019 QRA ADM, Chester: Environmental Change: pace, magnitude and impact, 3- 5 January 2019. (Poster)
- 26.** Rodrigues, T., Gonçalves, C., Padilha, M., Alonso-Garcia, M., Oliveira, D., Grimalt, J.O., Abrantes, F., 2019. Past Interglacials Climate Variability: Features and lessons from "Warm Worlds". 13th International Conference of Paleoceanography, Sydney, Australia. (Poster)
- 27.** Rodrigues, T., Gonçalves, C., Padilha, M., Alonso-Garcia, M., Oliveira, D., Grimalt, J.O., Abrantes F., 2019. What can Past Interglacials Climate and Oceanographic Variability teach us about the ongoing climate warming? 20th Congress of the International Union for Quaternary Research (INQUA), Dublin, Ireland. (Poster)
- 28.** Gomes, S.D., Fletcher, W., Rodrigues, T., Oliveira, D., Sanchez-Goni, M. F., Abrantes, F., Stone, A., Naughton, F., 2019. Rising atmospheric CO<sub>2</sub> concentrations: the overlooked factor promoting forest development in southwestern Europe across Termination I? 20th Congress of the International Union for Quaternary Research (INQUA), Dublin, Ireland. (Poster)

- 29.** Naughton, F., Oliveira, D., Desprat, S., Rodrigues, T., Morales Molino, C., Hodell, D., Alonso-Garcia, M., Abrantes, F., Sanchèz-Goñi, M.F., 2019. Climate-driven vegetation changes during MIS 12 and MIS 16 in southwestern Europe. 20th Congress of the International Union for Quaternary Research (INQUA), Dublin, Ireland. (Oral presentation)
- 30.** Desprat, S., Clément, C., Oliveira, D., Anupama, K., Prasad, S., Zorzi, C., Lauterbach, S., Andersen, N., Thomas Blanz, T., Ralph Schneider, R., Martinez, P., 2019. Response of the Indian vegetation and monsoon rainfall to the current and last interglacial warmings in the Mahanadi River region. 20th Congress of the International Union for Quaternary Research (INQUA), Dublin, Ireland. (Poster)
- 31.** Rodrigues, T.; Voelker, A.H.L., Rufino, M., Alonso-García, M., Oliveira, D., Naughton, F., Abrantes, F., 2019. "Warm Worlds" project Features and lessons from Past Interglacials "warm periods" during the last 1.5 Ma. Encontro de Oceanografia 2019, Peniche, Portugal. (Poster)
- 32.** Sánchez Goñi, M.F., Desprat, S., Morales del Molino, C., Naughton, F., Oliveira, D., Ferretti, P., Polanco-Martinez, J.M., Rodrigues, T., Alonso-García, M., Rodriguez-Tovar, F.J., Dorador, J., 2019. 800,000 years of western Mediterranean vegetation and climate changes: a zooming on the cold MIS 17 interglacial (700 ka). MedPalyno 2019, Bordeaux, France. (Oral presentation)
- 33.** Clément, C.S., Desprat, K., Anupama, S., Prasad, C., Zorzi, Oliveira, D., Lauterbach, S., Bolton, C., Andersen, N., Blanz, T., Clemens, S.C., Schneider, R., Martinez, P., 2019. Indian vegetation and monsoon rainfall changes during the last deglaciation and early Holocene at orbital and millennial timescales. MedPalyno 2019, Bordeaux, France. (Oral presentation)
- 34.** Rodrigues, T., Voelker, A.H.L., Rufino, M., Alonso-García, M., Oliveira, D., Hodell, D.A., Grimalt, J.O., Abrantes, F., 2018. Alterações Climáticas durante o último 1 Milhão de Anos: Evidências da Margem Ibérica. Ciência 2018 - Science and Technology in Portugal Summit, Lisbon Congress Centre, Portugal. (Invited Oral presentation)
- 35.** Naughton, F., Gomes, S.D., Rodrigues, T., Desprat, S., Bronk-Ramsey, C., Salgueiro, E., Sanchez Goñi, M.F., Oliveira, D., Voelker, A.H.L., Abrantes, F., 2018. Climate variability in central-western Iberia across the last 11.7 ka. Conference "Climate and Prehistory in Southern Iberia", Lisbon, Portugal. (Oral presentation)
- 36.** Naughton, F., Costas, S., Gomes, S.D., Rodrigues, T., Desprat, S., Bronk-Ramsey, C., Salgueiro, E., Sanchez Goñi, M.F., Renssen, H., Trigo, R., Oliveira, D., Voelker, A.H.L., Abrantes, F., 2018. Complex climatic pattern in Central Western Iberia during the YD. 9th Symposium on the Atlantic Iberian Margin (MIA), Coimbra, Portugal. (Oral presentation)
- 37.** Rodrigues, T., Alonso-García, M., Rufino, R., Oliveira, D., Hodell, D.A., Grimalt, J.O., Abrantes, F., 2017. Climate Changes over the last 1.3 Ma on the Iberian Margin. 3rd QUIGS - PAGES working Group: workshop: Interglacials of the 41kyr-world and the Middle Pleistocene Transition, Molyvos, Island of Lesbos, Greece. (Oral presentation)
- 38.** Wary, M., Oliveira, D., Morales Del Molino, C., Naughton, F., Eynaud, F., Londeix, L., Ducassou, E., Sanchez-Goni, M.F., 2017. Role of the Mediterranean Outflow Water on the North Atlantic climate and ocean circulation during past climate warming events. Mediterranean Palynology Symposium, Barcelona, Spain. (Oral presentation)
- 39.** Sánchez Goñi, M.F., Desprat, S., Morales-Molino, C., Naughton, F., Oliveira, D., Rodrigues, T., Polanco-Martínez, J.M., Eynaud, F., Daniaux, A.L., Hodell, D.A., Sierro, F.J., Martín-García, G.M., 2017. The Shackleton site, a pivotal Iberian margin climatic archive for understanding the ocean-ice-land interactions of the last 800,000 years. Mediterranean Palynology Symposium, Barcelona, Spain. (Oral presentation)
- 40.** Wary, M., Londeix, L., Eynaud F., Oliveira, D., Morales Del Molino, C., Naughton, F., Ducassou, E., Sanchez-Goni, M.F., 2017. Role of the Mediterranean Outflow Water on the North Atlantic climate and ocean circulation during past climate warming events. 11<sup>th</sup> International Conference on Modern and Fossil Dinoflagellates, Bordeaux, France. (Oral presentation)
- 41.** Abrantes, F., Rodrigues, T., Rufino, M., Naughton, F., Gil, I., Salgueiro, E., Stroynowski, Z., Drago, T., Santos, C., Oliveira, D., Domingues, S., Alberto, A., Mil-Homens, M., 2017. The climate of the last two millennia off Iberia. EGU General Assembly, Vienna, Austria. (Poster)
- 42.** Etourneau, J., Kim, J.-H., Oliveira, D., Wary, M., Shin, K.-H., Gal, J.-K., Penaud, A., Eynaud, F., Sánchez Goñi, M.F., 2017. Investigating climate variability in SW Iberia margin during the last deglaciation. Workshop South Korean and French project PHC STAR MEDKO: "Abrupt climate events in the past Mediterranean and Korean basins", Bordeaux University, France. (Oral presentation)
- 43.** Desprat, S., Oliveira, D., Rodrigues, T., Daniaux, A.L., Morales Del Molino, C., Naughton, F., Yin, Q., Guilhem, G., Sánchez Goñi, M.F., 2016. Réponse climatique du sud-ouest de l'Europe aux échelles orbitale et millénaire au Pléistocène moyen. Journées scientifiques "Climats et impacts", Paris-Sud (Orsay) University, France. (Oral presentation)

- 44.** Naughton, F., Rodrigues, T., Salgueiro, E., Sanchez Goñi, M.F., Desprat, S., Costas, S., Gomes, S., Bronk-Ramsey, C., Duprat, J., Michel, E., Rossignol, L., Zaragosi, S., Prabhu, C.N., Oliveira, D., Voelker, A.H.L., Abrantes, F., 2016. Climate variability across the last deglaciation in western Iberia and its margin. 2<sup>nd</sup> APOCEAN - Associação Portuguesa de Oceanografia – Meeting, S. Pedro de Moel, Portugal. (Oral presentation)
- 45.** Desprat, S., Sánchez Goñi, M.F., Rodrigues, T., Oliveira, D., Guillem, G., Piette, N., Hodell, D. A., 2016. Climate Variability during Middle Pleistocene interglacials in southwestern Europe. Colloque Q10 AFEQ CNF-INQUA 2016: Paléoclimats et environnements quaternaires, quoi de neuf sous le soleil? Bordeaux University, France. (Oral presentation)
- 46.** Sanchez Goñi, M.F., Desprat, S., Morales del Molino, C., Naughton, F., Oliveira, D., Rodrigues, F., Eynaud, F., Daniau, A.-L. Hodell, D. A., Martín-García, G. M., Sierro, F. J., 2016. The Shackleton site, a pivotal Iberian margin climatic archive for understanding the ocean-ice-land interactions of the last 800,000 years. XII International Conference on Paleoceanography (ICP12), Utrecht, The Netherlands. (Poster)
- 47.** Etourneau, J., Kim, J.-H., Kang, S., Oliveira, D., Gal, J.-K., Choi, B., Shi, K.-H., Penaud, A., Sanchez-Goñi, M.F., 2016. Rapid climate and environmental changes in the western Iberian Peninsula since the last glacial period, EGU General Assembly, Vienna, Austria. (Poster)
- 48.** Sánchez Goñi, M.F., Rodrigues, T., Desprat, S., Oliveira, D., Guillem, G., Daniau, A.-L., Ducassou, E., Eynaud, F., Hodell, D.A., 2015. Southwestern European climate response to the contrasting interglacials of the last 800,000 years. XIX INQUA Congress, Quaternary Perspectives on Climate Change, Natural Hazards and Civilization, Nagoya, Japan. (Oral presentation)
- 49.** Etourneau, J., Kim, J.-H., Oliveira, D., Shin, K.-H., Gal, J.-K., Penaud, A., Sánchez Goñi, M.F., 2015. Abrupt changes in the Mediterranean Outflow Waters during the last deglaciation - preliminary results. XIX INQUA Congress, Quaternary Perspectives on Climate Change, Natural Hazards and Civilization, Nagoya, Japan. (Poster)
- 50.** Sánchez Goñi, M.F., Desprat, S., Oliveira, D., Rodrigues, T., Hodell, D., IODP Expedition 339 Scientists, 2014. Western Mediterranean vegetation response to contrasting interglacials of the last 1 million years. Milankovitch Anniversary UNESCO Symposium: Water Management in Transition Countries as Impacted by Climate and Other Global Changes, Belgrade, Serbia. (Invited Oral presentation)
- 51.** Naughton, F., Keigwin, L., Peteet, D., Desprat, S., Costas, S., Oliveira, D., Abrantes, F., de Vernal, A., 2014. Holocene climate changes in the mid-latitudes of the western North Atlantic. 1<sup>th</sup> APOCEAN - Associação Portuguesa de Oceanografia – Meeting, Lisbon, Portugal. (Oral presentation)
- 52.** Jimenez-Espejo, F.J., Grunert, P., Martrat, B., Hodell, D., Voelker, A., Flores, J.A., Martinez-Ruiz, F., Asahara, Y., Rodriguez-Tovar, F.J., Balestra, B., Oliveira, D., Sanchez-Goñi, M.F., Grimalt, J.O., Hernandez-Molina, F.J., Xuan, C., Stow, D.A.V., Alvarez-Zarikian, C., 2014. Water masses changes and paleoenvironmental conditions during MIS 31 at site IODP U1385. IODP Exp. 339 2<sup>nd</sup> post-cruise meeting, Tarifa, Spain. (Poster)
- 53.** Desprat, S., Sánchez Goñi, M.F., Oliveira, D., Guillem, G., Daniau, A.L., Rodrigues, T., Ducassou, E., Eynaud, F., Hodell, D., Balestra, B., Flores, J.A., Grimalt, J.O., Sierro, F.J., 2014. Vegetation and fire regime changes in southwestern Europe during contrasting interglacials of the last 800 kyr. IODP Exp. 339 2<sup>nd</sup> post-cruise meeting, Tarifa, Spain. (Poster).
- 54.** Naughton, F., Keigwin, L., Desprat, S., Oliveira, D., Abrantes, F., 2013. Vegetation/oceanographic changes in the mid-latitudes of southwestern North Atlantic. EGU General Assembly, Viena, Austria. (Oral presentation)
- 55.** Naughton, F., Keigwin, L., Oliveira, D., Abrantes, F., 2013. Holocene vegetation/oceanographic changes in the Cape Hatteras region (southwestern North Atlantic). Workshop “Holocene Climate changes”, London, UK. (Oral presentation)
- 56.** Abrantes, F., Rodrigues, T., Naughton, F., Gil, I., Salgueiro, E., Stoynowski, Z., Santos, C., Oliveira, D., Domingues, S., Mil-Homens, M., Witt, L., Drago, T., 2013. The Latest Holocene Climate Record off Iberia. Conference “Holocene Climate changes”, London, UK. (Oral presentation)
- 57.** Sanchez Goñi, M., Desprat, S., Daniau, A., Ducassou, E., Eynaud, F., Hodell, D.A., Balestra, B., Flores, J.A., Grimalt, J.O., Rodrigues, T., Sierro, F.J., Oliveira, D., Hernandez-Molina, F.J., Stow, D.A., and Alvarez Zarikian, C.A., 2013. Vegetation and fire activity changes in southwestern Europe during contrasting interglacials before and after the Middle Pleistocene Transition (MPT). American Geophysical Union Fall Meeting, San Francisco, USA. (Poster)
- 58.** Naughton, F., Keigwin, L., Peteet, D., Desprat, S., Oliveira, D., Costas, S., Abrantes, F., 2013. Holocene climate changes in the Cape Hatteras region. American Geophysical Union Fall Meeting, San Francisco, USA. (Oral presentation)



## Organization of scientific meetings

---

### **Conference convener**

- 2023: XXI Congress of the International Union for Quaternary Research (INQUA), Co-convener of the Session 15: Understanding regional and global monsoons changes across timescales, and Session 3: Orbital and millennial vegetation changes at global and regional scales during the Quaternary: insights from data and models.

### **Conference Organizing Committee**

- 2022: 4th APOCEAN-Portuguese Oceanography Meeting, Vieira de Leiria, Portugal. <https://www.ccmар.ualg.pt/news/encontro-de-oceanografia-2022-reuniu-especialista-e-estudantes-em-vieira-de-leiria>.

### **Conference Organizing Committee (Volunteer):**

- 2019: 42nd Mediterranean Science Commission (CIESM) Congress, Cascais, Portugal.
- 2019: Mediterranean Palynological Societies Symposium (MedPalyno), Bordeaux, France.

### **Moderator:**

- 2022: 4th APOCEAN-Portuguese Oceanography Meeting, Portugal.
- 2019: 3rd APOCEAN-Portuguese Oceanography Meeting, Peniche, Portugal.

## Referee

---

- 2022-2024: Selection Committee for APFL-awarded grants supporting scientific conference attendance.
- 2021-2023: Selection Committee for Institutional Research Fellowships (CCMAR/BM/16/2021, IPMA-2022-004-BI, CCMAR-2023-033-BI, IPMA-2023-033-BI, IPMA-2023-034-BI, CCMAR/BM/19/2023, IPMA-2023-006-BI).
- 2017-2023: International journals (Quaternary Science Reviews, 4x, Quaternary Internacional).
- 2023: IMBRSea-International Master of Science in Marine Biological Resources master thesis evaluation.
- 2021: IMBRSea-International Master of Science in Marine Biological Resources master thesis evaluation
- 2020: Chemos Rhus-Annual competition of scientific videos based on chemical knowledge for high school students, <https://www.spq.pt/news/chemrus-2020-vencedores>.

## Teaching experience

---

- 2021-2024: Geology. Salamanca University, Spain. Teaching: Palynology. Pollen-based vegetation and climate changes over geological timescales. (15 hours).
- 2022-2024: Member of the UAlg Team (Dulce Oliveira, Teresa Rodrigues and Emilia Salgueiro) that offers online lectures of 1 hour for elementary school students and teachers from Algarve, PT, related to Paleoclimatology and Paleoceanography.
- 2023: Introduction to Paleoclimatology and Paleoceanography by Dulce Oliveira, Teresa Rodrigues and Emilia Salgueiro. Olhão Secondary School. (90 minutes).

## Supervision experience

---

- 2022-2021: Supervision of two Master Fellows as a PI of the FCT Exploratory Project INDRA EXPL/CTA-CLI/0612/2021 "Indian monsoon and vegetation dynamics: lessons from two contrasting glacial-interglacial cycles of the Middle Pleistocene".

## Marine Geophysical Cruises

---

- 2019: MINEPLAT project “Assessment of the potential of mineral resources of the Alentejo continental shelf (metallic and non-metallic ores) formed during Pliocene-Quaternary times, ALT20-03-0145-FEDER-000013, ALENTEJO 2020. 30 March – 14 April 2019, Alentejo offshore (Sines – Odeceixe). Acquisition of geophysical data: Vessel: Noruega (47 m), IPMA.

## Main dissemination and outreach activities

---

### To educational institutions:

- Enrolled in the programs "Cartas com ciência", <https://en.cartascomciencia.org/> (since 2021) and “Cientista Regressa à Escola”, <https://www.cientistaregressaescola.pt/>. (since 2022).
- Participation in the activities developed within the IPMA-Schools Project (approximately once a month), which brings together a group of researchers, technicians and staff to show the science that is done at IPMA to children of first and second cycle of schooling (5 - 12 years). <https://escolas.ipma.pt/>. (since 2017).
- 2021-2022: Collaboration in the Project "Once Upon a Time" which aims to communicate science through short stories translated into several languages, including Portuguese, led by Dharma Reyes-Macaya (University of Bremen and Marum, Germany), which runs from 2016 to the present (<https://sites.google.com/view/onceuponatime-scientific-story/downloads?authuser=0>). (since 2021).
- 2018: Presentation “Every grain of pollen has a story to tell” to 1st-grade students at EB1/JI Moinhos da Funcheira, PT.
- 2018: Presentation “Reconstruction of atmospheric and ocean circulation conditions from oceanic records” to high school students at Escola Secundária de Miraflares, PT.
- 2018, 2022, 2023: Presentation of the palynological work to bachelor and master students from Aveiro University at IPMA, I.P. - Instituto Português do Mar e da Atmosfera.

### To general public:

- 2023: Participation in the European Maritime Day and open Day at IPMA, Algés, Portugal.
- 2023: Engagement in the World Oceans Day Celebration in the INVIPESCA Network with a video highlighting Professional Opportunities titled “The Ocean, a Sea of Possibilities”.
- 2022: Online talk at PhDcomBolsa, a company dedicated to mentoring scholarship applications for study in Europe, <https://www.phdcombolsa.com/>, about the opportunities and challenges associated with a scientific career in Europe.
- 2022: Participation in CCMAR’s social media campaign for the International Day of Women and Girls in Science (<https://fb.watch/b61CyTqeO2>).
- 2019-2022: Participation in "Noite Europeia dos Investigadores" in Lisbon, Portugal. (<https://www.museus.ulisboa.pt/pt-pt/noite-europeia-dos-investigadores-2019>; <https://www.pavconhecimento.pt/nei/2022>.)
- 2021: Rodrigues, T., Oliveira D., Salgueiro E. Lecture titled "Our PLANET is heating up!! and... Can Global Warming lead to periods of extreme cold?... Understanding the past to predict the future!!" at the International Science Fair, Oeiras. Portugal.
- 2019: Participation in "Dia Nacional do Mar", Museu Nacional de História Natural e da Ciência, Lisboa, (<https://www.ccmar.ualg.pt/news/indicadores-paleoclimaticos-em-destaque>).
- 2018: Press: Jornal Público <https://www.publico.pt/2018/03/21/ciencia/noticia/e-se-o-clima-do-passado-em-portugal-nos-dissesse-como-vai-ser-o-do-futuro-1807398>.
- Radio: Rádio Renascença <http://www.pt.cision.com/s/?l=2d828d40>; 2018: Radio: Rádio Antena 1: <http://www.pt.cision.com/s/?l=b67ce582>; TV: SIC <https://sic.pt/Programas/o-programa-da-cristina/videos/2019-05-29-Mulheres-Cientistas-Para-perceber-o-futuro-temos-de-saber-explicar-o-passado>.

## Institutional activities

---

- Co-responsible for the library's organization of Portuguese Institute for the Sea and Atmosphere-IPMA's Marine Geology and GeoResources Division, PT (since 2019).
- Responsible for the science communication of IPMA's Marine Geology and GeoResources Division to the Centre for Marine Sciences-CCMAR, PT (since 2019).
- Co-responsible for the scientific Paleo-Forums organization in the Marine Geology and Georesources Division (DivGM) held twice a month at IPMA, PT (since 2014).

## Member of research associations and working groups

---

- Honorary member in the APFL-Association of French-Speaking Palynologists in recognition of significant, long-standing contributions to the APFL. (since 2022)
- Member of: APOCEAN (Associação Portuguesa de Oceanografia), APLF (Association des Palynologues de Langue Francaise), QRA (Quaternary Research Association), AFEQ-CNF INQUA (Association Française pour l'Etude du Quaternaire - CNF INQUA), EGU (European Geosciences Union), AGU (American Geophysical Union), PALCOM (INQUA Palaeoclimate Commission), QUIGS-PAGES-PMIP WG on Quaternary Interglacials, Geolatinas Latinas in Earth And Planetary Sciences, IODP Expedition 339 Shackleton Site pollen working group and Oceanography and Climate Change Group of CCMAR.

## Main specialized courses & training (after 2010):

---

- 2021: Online course on Marine Biogeochemistry: Application of Isotopes in Ocean, Earth, and Environmental Research. May 24th to June 04th 2021, 20h, organized by the Centre of Marine Sciences (CCMAR), PT.
- 2020: S4D4C European Science Diplomacy Online Course (<https://www.s4d4c.eu/european-science-diplomacy-online-course/>).
- 2020: Certified Peer Reviewer Course. Elsevier Researcher Academy ([researcheracademy.com](https://researcheracademy.com)).
- 2019: Training in Science Communication: CCMAR Communication Toolbox, Universidade do Algarve - Campus de Gambelas, Faro, Portugal.
- 2018: Marine Biogeochemistry Training School on Biogeochemical and ecological dimensions of a changing ocean. Universidade do Algarve - Campus de Gambelas, Faro, Portugal.
- 2015: Training on different lipid biomarkers from the Mediterranean cores in the context of the project PHC STAR MEDKO (Abrupt climate events in the past Mediterranean and Korean basins), at the University of Hanyang, South Korea.
- 2015: Science Communication and Public Engagement Workshop, IPMA - Portuguese Institute for the Sea and Atmosphere, Lisbon, Portugal.
- 2014: 11th Urbino Summer School in Paleoclimatology; University of Urbino, Italy.
- 2011: Course of Oceanography. Basic principles and main processes; duration: 2 days; LNEG, Portugal.
- 2011: Course of basic Microscopy; duration: 1 day; LNEG, Portugal.
- 2011: Paleoclimatology and terrestrial environments; duration: 2 weeks; Université de Bordeaux I, France.
- 2010: Technical Scientific Writing Workshop; duration: 2 days; Faculdade de Ciências de Lisboa, Portugal.

## Languages

---

Portuguese: native speaker

English: fluent (speaking, reading, writing)

French: independent user - reading; basic user - writing and speaking

Spanish: independent user - speaking and reading; basic user - writing

Lisbon, 17/01//2024

Dulce da Silva Oliveira

Dulce da Silva Oliveira