

AA  
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## CURRICULUM VITAE

Last Name: **Teixeira**

First Name: **Manuel**

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### EDUCATION

**2016–2021: PhD in Geology.** University of Lisbon, Faculty of Sciences.

Thesis: Mass movement processes in the Southwest Portuguese Continental Margin during the Late Pleistocene-Holocene: a multidisciplinary approach for volume quantification, estimation of recurrence times and hazard implications (**Approved with Distinction and Honours**).

**2010–2012: M.Sc in GIS and Territory management.** University of Porto, Faculty of Arts (17 / 20).

Dissertation: Avaliação da Suscetibilidade à Ocorrência de Deslizamentos Translacionais Superficiais. Utilização de Modelos Matemáticos de Base Física na Bacia de Tibo, Arcos de Valdevez (in Portuguese) (19 / 20).

**2002–2006: Graduation in Geography:** Natural and Geological hazards assessment and management. University of Porto, Faculty of Arts (14.2 / 20).

### RESEARCH INTERESTS AND EXPERIENCE

Manuel works on Earth and Environmental Sciences focusing on Geology and natural hazards. Manuel mostly works on mass movement processes and morphosedimentary analyses. In the last years, Manuel has been working on submarine landslides affecting contourites in the Sines Contourite Drift, Western Iberia, through bathymetric analysis, multi-channel seismic data interpretation, and sedimentological, physical, geochemical, and geotechnical analyses of sediments. Since the last year, Manuel is working also on slope stability in volcanic island environments, in Cape Verde.

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## PUBLICATION LIST

- Teixeira, M., et al. (2022). Geotechnical properties of Sines Contourite Drift sediments: their contribution to submarine landslide susceptibility. *Bulletin of Engineering Geology and the Environment*, 81. <https://doi.org/10.1007/s10064-022-02873-y>.
- Ercilla, G., et al. (2022). Understanding the complex geomorphology of a deep-sea area affected by continental tectonic indentation: The case of the Gulf of Vera (Western Mediterranean). *Geomorphology*, 402, 108126. <https://doi.org/10.1016/j.geomorph.2022.108126>.
- Ercilla, G., et al. (2021). Offshore Geological Hazards: Charting the Course of Progress and Future Directions. *Oceans*, 2 (2), 393 – 428. <https://doi.org/10.3390/oceans2020023>.
- Ercilla, G., et al. (2021). Deep Sea Sedimentation. Treatise on Geomorphology. Reference Module in Earth Systems and Environmental Sciences. Elsevier. ISBN: 9780124095489., 29 pp. <https://doi.org/10.1016/B978-0-12-818234-5.00129-2>.
- Yenes, M., et al. (2021). The Guadiaro-Baños contourite drifts (SW Mediterranean). A geotechnical approach for its stability analysis. *Marine Geology*, 437, 106505. <https://doi.org/10.1016/j.margeo.2021.106505>.
- Teixeira, M., et al. (2020). The Late Pleistocene-Holocene sedimentary evolution of the Sines Contourite Drift (SW Portuguese Margin): A multiproxy approach. *Sedimentary Geology*, 407, 105737. <https://doi.org/10.1016/j.sedgeo.2020.105737>.
- Teixeira, M., et al. (2019). Interaction of alongslope and downslope processes in the Alentejo Margin (SW Iberia) – Implications on slope stability. *Marine Geology*, 410, 88-108. <https://doi.org/10.1016/j.margeo.2018.12.011>.
- Teixeira, M., et al. (2015) – Physically based shallow translational landslide susceptibility analysis in Tibo catchment, NW of Portugal. *Landslides*, 12 (3), 455-468. <https://doi.org/10.1007/s10346-014-0494-9>.

## PROJECTS (currently working on)

**UNTIeD** - UNlocking the megaTsunami Deadlock: using the near-source impacts to constrain tsunami generation by volcanic flank collapses (PTDC/CTA-GEO/28588/2017 and LISBOA-01-0145-FEDER-028588).

**MAGICLAND** - MArine Geo-hazards InduCed by underwater LANDslides in the SW Iberian Margin (PTDC/CTA-GEO/30381/2017).

## SCIENTIFIC CRUISES

**EUROFLEETS - GRACO** (Gravitational and Contouritic Interactions on the Upper Slope of the Gulf of Cadiz close to the Straits of Gibraltar) – PI: Marga García. From 22<sup>nd</sup> September to the 1<sup>st</sup> of October 2016 on board of Research

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Vessel L' Atalante in the Gulf of Cadiz. Bathymetric survey, rock dredge, box core, Kullenberg piston core sampling and seabed imaging.

**MINEPLAT-1** (Determination of the mineral resource potential in the Alentejo continental shelf and natural conditions imposed by the uplift of the continental margin in the Plio-Quaternary) – PI: Pedro Terrinha, IPMA (Portuguese Institute for the Sea and the Atmosphere) from 4<sup>th</sup> to the 16<sup>th</sup> of October 2016 on board of the vessel Noruega in the Alentejo Margin. Bathymetric survey and seismic acquisition.

**MINEPLAT-3** – PI: Pedro Terrinha. Portuguese cruise, coordinated by IPMA from 4<sup>th</sup> to the 23<sup>rd</sup> of June 2018 on board of the vessel Noruega in the Alentejo Margin. Bathymetric survey and seismic acquisition.

**FAUCES-2** (Geohazards associated with the heads of submarine canyons on the Mediterranean Continental Margins of Southern Iberia) - PI: David Casas and Belén Alonso. From 19<sup>th</sup> to the 31<sup>st</sup> of October 2018, on board of Research Vessel Sarmiento de Gamboa in the Mediterranean and Alboran Seas. Multibeam bathymetric, multichannel seismic surveys, and filming and sampling the seafloor with the ROV (Remote Operated Vehicle) Luso.

**MINEPLAT-5** – PI: Pedro Terrinha. Portuguese cruise, coordinated by IPMA from the 6<sup>th</sup> to the 17<sup>th</sup> of March 2019 on board of the vessel Noruega in the Alentejo Margin. Bathymetric survey and seismic acquisition.

### **COMPLEMENTARY TRAINING**

**ECORD SUMMER SCHOOL 2017:** *Current-Controlled Archives: Coral Mounds and Contourites*. From 21<sup>st</sup> August to 1<sup>st</sup> September 2017, MARUM, University of Bremen, Germany.

**ECORD TRAINING COURSE 2017:** *The Virtual Drillship Experience*. From 6<sup>th</sup> to 10<sup>th</sup> March 2017, MARUM, University of Bremen, Germany.

**DRIFTERS RESEARCH GROUP SESSION:** *Processes In Deep-Marine Environments*. From 20<sup>th</sup> to 23<sup>rd</sup> November 2018. Royal Holloway University of London, United Kingdom. Organized by Professor F. Javier Hernández-Molina.



(Manuel António da Cunha Teixeira)

3<sup>rd</sup> February 2023