

Dr Sara Martinez-Loriente

Research Fellow in Geology/Geophysics

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About

Sara Martinez-Loriente is a marine geologist interested in the use of geophysics to explore the marine subsurface. Combining multi-scale geophysical methods her research focuses on the characterization of active faults, the study of the physical properties of the basement, and the understanding of the tectonics of rifted continental margins.

Qualifications

PhD in Earth Sciences

Publications

- MARTÍNEZ-LORIENTE, S.**, SALLARÈS, V., GRÀCIA, E., BARTOLOME, R., DAÑOBEITIA, J.J., ZITELLINI, N., (2014), Seismic and gravity constraints on the nature of the basement in the Africa-Eurasia plate boundary: New insights for the geodynamic evolution of the SW Iberian margin, *J. Geophys. Res. Solid Earth*, 119, 127–149, doi:10.1002/2013JB010476.
 - MARTÍNEZ-LORIENTE, S.**, GRÀCIA, E., BARTOLOME, R., SALLARÈS, V., CONNORS, C., PEREA, H., LO IACONO, C., KLAESCHEN, D., TERRINHA, P., DAÑOBEITIA, J.J., and ZITELLINI, N., (2013), Active deformation in old oceanic lithosphere and significance for earthquake hazard: Seismic imaging of the Coral Patch Ridge area and neighbouring abyssal plains (SW Iberian Margin). *Geochem. Geophys. Geosyst.*, 14, 2206–2231, doi:10.1002/ggge.20173.
 - SALLARÈS, V., **MARTÍNEZ-LORIENTE, S.**, PRADA, M., GRÀCIA, E., RANERO, C., GUTSCHER, M.A., BARTOLOME, R., GAILLER, A., DAÑOBEITIA, J.J., ZITELLINI, N., (2013), Seismic evidence of exhumed mantle rock basement at the Goringe Bank and the adjacent Horseshoe and Tagus abyssal plains (SW Iberia), *Earth Planet. Sci. Lett.*, 365, 120–131, doi:10.1016/j.epsl.2013.01.021.
 - GRÀCIA, E., BARTOLOME, R., LO IACONO, C., MORENO, X., STICH, D., MARTÍNEZ-DIAZ, J.J., BOZZANO, G., **MARTÍNEZ-LORIENTE, S.**, PEREA, H., DIEZ, S., MASANA, E., DAÑOBEITIA, J.J., TELLO, O., SANZ, J. L., CARREÑO, E. AND EVENT-SHELF TEAM (2012), Acoustic and seismic imaging of the active Adra Fault (NE Alboran Sea): In search for the source of the 1910 Adra Earthquake. *Natural Hazards and Earth System Sciences*, 12, 3255–3267, doi:10.5194/nhess-12-3255-2012.
 - BARTOLOME, R., GRÀCIA, E., STICH, D., **MARTÍNEZ-LORIENTE, S.**, KLAESCHEN, D., MANCILLA, F.L., LO IACONO, C., DAÑOBEITIA, J.J., ZITELLINI, N., (2012). Evidence for active-slip faulting along the Eurasia-Africa convergence zone: Implications for seismic hazard in the SW Iberian Margin. *Geology*, 40, 6, 495–498, doi: 10.1130/G33107.1.
- FALIVENE, O., ARBUÉS, P., LEDO, J., BEJUMEA, B., MUÑOZ, JA., FERNANDEZ, O., **MARTINEZ, S.** (2010). Synthetic seismic models from outcrop-derived reservoir-scale three-dimensional facies models: The Eocene Ainsa turbidite system (southern Pyrenees). *AAPG Bulletin*, 94, Issue 3, 317–343.