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Place and date of birth: **Lisboa, the 16th July 1960.**

Nationality: **Portuguese**

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Academic degrees, fields of study, awarding institutions, dates in reverse chronological order

Habilitation in Physics, Geophysics, by the University of Lisbon, 2003

PhD in Physics, Geophysics, by the University of Lisbon, 1996

MSc in Physics, Geophysics, by the University of Lisbon, 1992

Graduation in Physics, Geophysics, by the University of Lisbon, 1984

Present position, institution, starting date

Assistant Professor, Sciences Faculty, University of Lisbon, since 1996.

Previous positions, institutions, dates in reverse chronological order

1988 - Teacher Assistant in the Physics Department of the University of Lisbon.

1984 - Geophysicist with the oil consulting company "Atlantic Resources Lda, Estudos e Pesquisa de Petróleo".

Main scientific technical area of research

Marine Geophysics and Experimental Seismology.

Other scientific technical areas of interest or activities

Fundamental Seismology, Seismotectonics and Natural Hazards, Educational issues for high schools.

Prizes

The "Boa Esperança" prize was awarded in 1997 to the team co-ordinated by António Ribeiro, including João Cabral and Luis Matias for their relevant work in Seismotectonics and Neotectonics published in 1996.

Participation in Projects

Portuguese coordinator of the project GO: Geophysical Oceanography, funded by EU, 2006-2009.

Coordinator of the Portuguese funded project SWITNAME: Tectonic Numerical and Analogue Modelling of SW Iberia, 2006-2009.

Relevant publications since 2005 (reverse order)

- Leinweber, V. T., Klingelhoefer, F., Neben, S., Reichert, C., Aslanian, D., **Matias**, L., Heyde, I., Schreckenberger, B., Jokat, W. (2013). The crustal structure of the Central Mozambique continental margin — Wide-angle seismic, gravity and magnetic study in the Mozambique Channel, Eastern Africa, *Tectonophysics*, 599, 170-196.
- Monna, S., Cimini, G.B., Montuori, C., **Matias**, L., Geissler, W.H., and Favali, P., 2013. New insights from seismic tomography on the complex geodynamic evolution of two adjacent domains: Gulf of Cadiz and Alboran Sea, *J. Geophys. Res.*, 118, 1–15, doi:10.1029/2012JB009607
- Matias**, L. M., Cunha, T., Annunziato, A., Baptista, M. A., and Carrilho, F. (2013). Tsunamigenic earthquakes in the Gulf of Cadiz: fault model and recurrence, *Nat. Hazards Earth Syst. Sci.*, 13, 1-13, doi:10.5194/nhess-13-1-2013
- Rosas, F.M., Duarte, J.C., Neves, M.C., Terrinha, P., Silva, S., **Matias**, L., Gràcia, E., and Bartolome, R. (2012). Thrust–wrench interference between major active faults in the Gulf of Cadiz (Africa–Eurasia plate boundary, offshore SW Iberia): Tectonic implications from coupled analog and numerical modeling, *Tectonophysics*, 548–549, 1-21, doi:10.1016/j.tecto.2012.04.013
- Moulin, M., Aslanian, D., Rabineau, M., Martin Patriat, M. and **Matias**, L. (2012). Kinematic keys of the Santos–Namibe basins, in: Mohriak, W.U., Danforth, A., Post, P.J., Brown, D.E., Tari, G. C., Nemcok, M. & Sinha, S.T. (eds), *Conjugate Divergent Margins*, Geological Society, London, Special Publications, 369, <http://dx.doi.org/10.1144/SP369.3>
- Cunha, T.A., **Matias**, L.M., Terrinha, P., Negredo, A., Rosas, F., Fernandes, R.M.S., and Pinheiro, L.M. (2012). Neotectonics of the SW Iberia margin, Gulf of Cadiz and Alboran Sea: a reassessment including recent structural, seismic and geodetic data, *Geophys. J. Int.*, doi: 10.1111/j.1365-246X.2011.05328.x, 188, 850-872.
- Cabral, J., Moniz, C., Batlló, J., Figueiredo, P., Carvalho, J., **Matias**, L., Teves-Costa, P., Dias, R., Simão, N. (2011). The 1909 Benavente (Portugal) earthquake: search for the source. *Nat Hazards*. DOI 10.1007/s11069-011-0062-8
- Duarte, J.C., Rosas, F.M., Terrinha, P., Gutscher, M.-A., Malavieille, J., Silva, S., **Matias**, L. (2011). Thrust–wrench interference tectonics in the Gulf of Cadiz (Africa–Iberia plate boundary in the North-East Atlantic): Insights from analog models, *Marine Geology*, 289, 135–149, doi:10.1016/j.margeo.2011.09.014

- Carvalho, João; Rabeh, Taha; Bielik, Miroslav; Szalaiová, Eva; Torres, Luís; Silva, Marisa; Carrilho, Fernando; **Matias**, Luís; Miranda, Jorge Miguel (2011). Geophysical study of the Ota–VF Xira–Lisbon–Sesimbra fault zone and the lower Tagus Cenozoic basin, *Journal of Geophysics and Engineering*, Volume 8, Issue 3, pp. 395–411.
- Matias, H., Pedro Kress, Pedro Terrinha, Webster Mohriak, Paulo T. L. Menezes, Luis **Matias**, Fernando Santos, and Frode Sandnes (2011). Salt tectonics in the western Gulf of Cadiz, southwest Iberia, *AAPG Bulletin*, 95(10), pp. 1667–1698.
- Cabral, J. M., Marques, F., Figueiredo, P. and **Matias**, L. (2010). Active surface faulting or landsliding in the Lower Tagus Valley (Portugal)? A solved controversy concerning the Vila Chã de Ourique site, *J. Seismology*, DOI 10.1007/s10950-010-9221-8.
- Geissler, W.H., **Matias**, L., Stich, D., Carrilho, F., Jokat, W., Monna, S., IbenBrahim, A., Mancilla, F., Gutscher, M.-A., Sallarès, V. and Zitellini, N. (2010). Focal mechanisms for sub - crustal earthquakes in the Gulf of Cadiz from a dense OBS deployment, *Geophys. Res. Lett.*, 37, L18309, doi:10.1029/2010GL044289
- Duarte, J.C., P. Terrinha, F.M. Rosas, V. Valadares, L.M. Pinheiro, L. **Matias**, V. Magalhães, C. Roque (2010). Crescent-shaped morphotectonic features in the Gulf of Cadiz (offshore SW Iberia), *Marine Geology*, 271, 236–249.
- Terrinha, P., **L. Matias**, J. Vicente, J. Duarte, J. Luíse, L. Pinheiro, N. Lourenço, S. Diez, F. Rosas, V. Magalhães, V. Valadares, N. Zitellini, C. Roque, L. Mendes Víctor, and MATESPRO Team (2009). Morphotectonics and strain partitioning at the Iberia–Africa plate boundary from multibeam and seismic reflection data, *Marine Geology* 267, 156–174.
- Dusunur, D., Javier Escartin, Violaine Combier, Tim Seher, Wayne Crawford, Mathilde Cannat, Satish C. Singh, **Luis M. Matias** and Jorge M. Miranda (2009). Seismological constraints on the thermal structure along the Lucky Strike segment (Mid-Atlantic Ridge) and interaction of tectonic and magmatic processes around the magma chamber, *Marine Geophysical Researches*, 30(2), 105–120.
- Omira, R., Baptista, M.A., **L. Matias**, J. M. Miranda, C. Catita, F. Carrilho, and E. Toto, 2009. Design of a Sea-level Tsunami Detection Network for the Gulf of Cadiz, *Nat. Hazards Earth Syst. Sci.*, 9, 1327–1338.
- Rosas, F.M., J.C. Duarte, P. Terrinha, V. Valadares, **L. Matias** (2009). Morphotectonic characterization of major bathymetric lineaments in Gulf of Cadiz (Africa-Iberia plate boundary): Insights from analogue modelling experiments, *Marine Geology*, 261 (1–4), pp 33–47.
- Jaffal, M., Frauke Klingelhoefer, **Luis Matias**, Fernando Teixeira, Mostafa Amrhar (2009). Crustal structure of the NW Moroccan margin from deep seismic data (SISMAR Cruise), *C. R. Geoscience*, 341, pp 495–503.
- Zitellini, N., E. Gràcia, **L. Matias**, P. Terrinha, M.A. Abreu, G. DeAlteriis, J.P. Henriët, J.J. Dañobeitia, D.G. Masson, T. Mulder, R. Ramella, L. Somoza, S. Diez (2009). The quest for the Africa–Eurasia plate boundary west of the Strait of Gibraltar, *Earth and Planetary Science Letters*, 280, 13–50.
- Afilhado, A., **Matias**, L., Shiobara, H., Hirn, A., Mendes-Victor, L., Shimamura, H., (2008). From unthinned continent to ocean: the deep structure of the west Iberia passive continental margin at 38°N, *Tectonophysics*, 458, pp. 9–50.
- Dias, N.A., **L. Matias**, N. Lourenço, J. Madeira, F. Carrilho e, J.L. Gaspar, (2007). Crustal seismic velocity structure near Faial and Pico Islands (AZORES), from local earthquake tomography, *Tectonophysics*, 445(3–4), 301–317.
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- Maryline Moulin, Daniel Aslanian, Jean-Louis Olivet, Isabelle Contrucci, **Luis Matias**, Louis Géli, Frauke Klingelhoefer, Hervé Nouzé, Jean-Pierre Réhault e Patrick Unternehr (2005). Geological constraints on the evolution of the Angolan margin based on reflection and refraction seismic data (ZaïAngo project), *Geophys. J. Int.*, vol. 162 (3): 793–810.
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