

Leonardo Uieda

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PROFESSIONAL APPOINTMENTS

- 2019– **Lecturer**
Department of Earth, Ocean and Ecological Sciences
School of Environmental Sciences
University of Liverpool, UK
- 2018– **Affiliate Researcher**
Department of Earth Sciences
School of Ocean and Earth Science and Technology
University of Hawai‘i at Mānoa, USA
- 2017–2018 **Visiting Research Scholar**
Department of Earth Sciences
School of Ocean and Earth Science and Technology
University of Hawai‘i at Mānoa, USA
- 2014–2018 **Assistant Professor**
Departamento de Geologia Aplicada
Faculdade de Geologia
Universidade do Estado do Rio de Janeiro, Brazil

EDUCATION

- 2016 **PhD in Geophysics**, Observatório Nacional, Brazil
- 2011 **MSc in Geophysics**, Observatório Nacional, Brazil
- 2009 **BSc in Geophysics**, Universidade de São Paulo, Brazil
- 2008 **International Exchange**, York University, Canada

GRANTS & FELLOWSHIPS

- 2020–2023 NSF-EAR: “A Sustainable Plan for the Future of the Generic Mapping Tools”. PI: Wessel, P, **co-PI: Uieda, L.** *University of Hawai‘i at Mānoa*. Award ID: [1948602](https://www.nsf.gov/awardsearch/showAward?AWD_ID=1948602).
- 2020 Software Sustainability Institute Fellowship. *University of Liverpool*. Amount: £3000. More information: leouieda.com/research/ssi2020.html

- 2019–2020 ESRG Research Support: “Geophysical inversion of GRACE satellite time-lapse gravity”. Internal fund to support the research visit of PhD student Santiago R. Soler. *University of Liverpool*. Amount: £1000.
- 2018–2020 NSF-EAR: “The EarthScope/GMT Analysis and Visualization Toolbox”. PI: Wessel, P, **co-PI: Uieda, L**, co-PI: Smith-Konter, B. *University of Hawai‘i at Mānoa*. Amount: \$174,975. Award ID: [1829371](#).

AWARDS & HONORS

- 2017 Brazilian Geophysical Society (SBGf) Award for **Best PhD Thesis** of 2015 – 2017
- 2016 Universidade do Estado do Rio de Janeiro, Brazil, School of Geology **Teaching Award** given by the graduating class of 2016
- 2014–2018 QUALITEC/UERJ Grant for training a technician for the Laboratory of Exploration Geophysics - Universidade do Estado do Rio de Janeiro
- 2011–2015 Brazilian Ministry of Education CAPES **PhD Research Scholarship**
- 2011 SEG Near Surface Geophysics Section **Student Travel Grant** to present at the SEG Annual Meeting, San Antonio, TX, USA
- 2011 EAGE **PACE Student Travel Grant** to present at the 73rd EAGE Conference & Exhibition, Vienna, Austria
- 2010–2011 Brazilian Ministry of Education CAPES **Masters Research Scholarship**
- 2008 Brazilian Geophysical Society (SBGf) **Undergraduate Research Scholarship**
- 2005 São Paulo Research Foundation (FAPESP) **Undergraduate Research Scholarship**

PUBLICATIONS

PEER-REVIEWED

- 2020 **Uieda, L**, Soler, SR, Rampin, R, van Kemenade, H, Turk, M, Shaperro, D, Banihirwe, A, Leeman, J. Pooch: A friend to fetch your data files. *Journal of Open Source Software*. doi:[10.21105/joss.01943](#).
- 2019 Wessel, P, Luis, J, **Uieda, L**, Scharroo, R, Wobbe, F, Smith, WHF, Tian, D. The Generic Mapping Tools, Version 6. *Geochemistry, Geophysics, Geosystems*. doi:[10.1029/2019GC008515](#).
- Soler, SR, Pesce, A, Gimenez, ME, **Uieda, L**. Gravitational field calculation in spherical coordinates using variable densities in depth. *Geophysical Journal International*. doi:[10.1093/gji/ggz277](#). preprint: [doi.org/10.31223/osf.io/3548g](#)

- Zhao, G, Chen, B, **Uieda, L**, Liu, J, Kaban, MK, Chen, L, Guo, R. Efficient 3D large-scale forward-modeling and inversion of gravitational fields in spherical coordinates with application to lunar mascons. *Journal of Geophysical Research: Solid Earth*. doi:[10.1029/2019jb017691](https://doi.org/10.1029/2019jb017691). preprint: doi.org/10.31223/osf.io/dzf9j
- 2018 **Uieda, L**. Verde: Processing and gridding spatial data using Green’s functions. *Journal of Open Source Software*. doi:[10.21105/joss.00957](https://doi.org/10.21105/joss.00957).
- 2017 **Uieda, L**, Barbosa, VCF. Fast non-linear gravity inversion in spherical coordinates with application to the South American Moho, *Geophysical Journal International*, doi:[10.1093/gji/ggw390](https://doi.org/10.1093/gji/ggw390). preprint: doi.org/10.31223/osf.io/9ba4m
- 2016 **Uieda, L**, Barbosa, VCF, Braitenberg, C. Tesseroids: forward modeling gravitational fields in spherical coordinates, *Geophysics*, doi:[10.1190/geo2015-0204.1](https://doi.org/10.1190/geo2015-0204.1).
- Carlos, DU, **Uieda, L**, Barbosa, VCF. How two gravity-gradient inversion methods can be used to reveal different geologic features of ore deposit - A case study from the Quadrilátero Ferrífero (Brazil), *Journal of Applied Geophysics*, doi:[10.1016/j.jappgeo.2016.04.011](https://doi.org/10.1016/j.jappgeo.2016.04.011).
- 2015 Oliveira Jr, VC, Sales, DP, Barbosa, VCF, **Uieda, L**. Estimation of the total magnetization direction of approximately spherical bodies, *Nonlinear Processes in Geophysics*, doi:[10.5194/npg-22-215-2015](https://doi.org/10.5194/npg-22-215-2015).
- 2014 Carlos, DU, **Uieda, L**, Barbosa, VCF. Imaging iron ore from the Quadrilátero Ferrífero (Brazil) using geophysical inversion and drill hole data, *Ore Geology Reviews*, doi:[10.1016/j.oregeorev.2014.02.011](https://doi.org/10.1016/j.oregeorev.2014.02.011).
- 2013 Melo, FF, Barbosa, VCF, **Uieda, L**, Oliveira Jr, VC, Silva, JBC. Estimating the nature and the horizontal and vertical positions of 3D magnetic sources using Euler deconvolution, *Geophysics*, doi:[10.1190/geo2012-0515.1](https://doi.org/10.1190/geo2012-0515.1).
- Oliveira Jr, VC, Barbosa, VCF, **Uieda, L**. Polynomial equivalent layer, *Geophysics*, doi:[10.1190/geo2012-0196.1](https://doi.org/10.1190/geo2012-0196.1).
- 2012 **Uieda, L**, Barbosa, VCF. Robust 3D gravity gradient inversion by planting anomalous densities, *Geophysics*, doi:[10.1190/geo2011-0388.1](https://doi.org/10.1190/geo2011-0388.1).

PEER-REVIEWED CONFERENCE PROCEEDINGS

- 2014 Melo, FF, Barbosa, VCF, **Uieda, L**, Oliveira Jr, VC, Silva, JBC. A Single Euler Solution Per Anomaly, *76th EAGE Conference and Exhibition 2014*, doi:[10.3997/2214-4609.20140891](https://doi.org/10.3997/2214-4609.20140891).
- 2013 **Uieda, L**, Oliveira Jr, VC, Barbosa, VCF. Modeling the Earth with Fatiando a Terra, *Proceedings of the 12th Python in Science Conference*. doi:[10.25080/Majora-8b375195-010](https://doi.org/10.25080/Majora-8b375195-010).
- 2012 **Uieda, L**, Barbosa, VCF. Use of the “shape-of-anomaly” data misfit in 3D inversion by planting anomalous densities, *SEG Technical Program Expanded Abstracts*, doi:[10.1190/segam2012-0383.1](https://doi.org/10.1190/segam2012-0383.1).

Carlos, DU, **Uieda, L**, Li, Y, Barbosa, VCF, Braga, MA, Angeli, G, Peres, G. Iron ore interpretation using gravity-gradient inversions in the Carajás, Brazil. *SEG Technical Program Expanded Abstracts*, doi:[10.1190/segam2012-0525.1](https://doi.org/10.1190/segam2012-0525.1).

- 2011 **Uieda, L**, Bomfim, EP, Braitenberg, C, Molina, E. Optimal forward calculation method of the Marussi tensor due to a geologic structure at GOCE height, *Proceedings of the 4th International GOCE User Workshop*. doi:[10.6084/m9.figshare.92624](https://doi.org/10.6084/m9.figshare.92624).

Uieda, L, Barbosa, VCF. Robust 3D gravity gradient inversion by planting anomalous densities, *SEG Technical Program Expanded Abstracts*, doi:[10.1190/1.3628201](https://doi.org/10.1190/1.3628201).

Uieda, L, Barbosa, VCF. 3D gravity inversion by planting anomalous densities. *12th International Congress of the Brazilian Geophysical Society*, doi:[10.1190/sbgf2011-179](https://doi.org/10.1190/sbgf2011-179).

Uieda, L, Barbosa, VCF. 3D gravity gradient inversion by planting density anomalies. *73th EAGE Conference and Exhibition incorporating SPE EUROPEC*, doi:[10.3997/2214-4609.20149567](https://doi.org/10.3997/2214-4609.20149567).

Carlos, DU, **Uieda, L**, Barbosa, VCF, Braga, MA, Gomes, AAS. In-depth imaging of an iron orebody from Quadrilátero Ferrífero using 3D gravity gradient inversion, *SEG Technical Program Expanded Abstracts*, doi:[10.1190/1.3628219](https://doi.org/10.1190/1.3628219).

Carlos, DU, Barbosa, VCF, **Uieda, L**, Braga, MA. Inversão de Dados de Aerogravimetria Gravimétrica 3D-FTG Aplicada a Exploração Mineral na Região do Quadrilátero Ferrífero, *12th International Congress of the Brazilian Geophysical Society*, doi:[10.1190/sbgf2011-243](https://doi.org/10.1190/sbgf2011-243).

PREPRINTS

- 2019 Barba, LA, Bazan, J, Brown, J, Guimera, RV, Gymrek, M, Alex Hanna, Heagy, LJ, Huff, KD, Katz, DS, Madan, CR, Moerman, KM, Niemeyer, KE, Poulson, JL, Prins, P, Ram, K, Rokem, A, Smith, AM, Thiruvathukal, GK, Thyng, KM, **Uieda, L**, Wilson, BE, Yehudi, Y. Giving software its due through community-driven review and publication. *OSF Preprints*. doi:[10.31219/osf.io/f4vx6](https://doi.org/10.31219/osf.io/f4vx6)

OPEN DATASETS

- 2017 **Uieda, L**, Barbosa, VCF. A gravity-derived Moho model for South America: source code, data, and model results from “Fast non-linear gravity inversion in spherical coordinates with application to the South American Moho”. doi:[10.6084/m9.figshare.3987267](https://doi.org/10.6084/m9.figshare.3987267)

OPEN-SOURCE SOFTWARE

- 2017– **PyGMT** – www.pygmt.org
A Python interface for the Generic Mapping Tools.
Creator and main developer.
- 2017– **The Generic Mapping Tools (GMT)** – www.generic-mapping-tools.org
A data processing and mapping toolbox for the Earth, Ocean, and Planetary Science.
Core development team.
- 2010– **Fatiando a Terra** – www.fatiando.org
Python tools for geophysical data processing, forward modeling, and inversion.
Creator and main developer.
- 2009–2016 **Tesseroids** – www.tesseroids.org
Forward modeling of gravitational fields in spherical coordinates.
Creator and sole developer.

TEACHING

UNDERGRADUATE

- 2020– ENVS398: Advanced Geodynamics
University of Liverpool
- 2020– ENVS258: Environmental Geophysics
University of Liverpool
- 2019– ENVS363: Geophysical Exploration Techniques [field]
University of Liverpool
- 2014–2016 Special Mathematics I: Introduction to Programming and Numerical Analysis
BSc in Oceanography, *Universidade do Estado do Rio de Janeiro*
- 2014–2016 Geophysics I: Gravity and magnetic methods
BSc in Geology, *Universidade do Estado do Rio de Janeiro*
- 2014–2016 Geophysics II: Exploration Seismology
BSc in Geology, *Universidade do Estado do Rio de Janeiro*
- 2015 Introduction to Geology
BSc in Oceanography, *Universidade do Estado do Rio de Janeiro*

WORKSHOPS & SHORT COURSES

- 2019 Best Practices for Developing and Sustaining Your Open-Source Research Software
AGU Fall Meeting 2019
- Become a Generic Mapping Tools Contributor Even If You Can't Code
AGU Fall Meeting 2019
- The Generic Mapping Tools for Geodesy
Scripps Institution of Oceanography

- InSAR Processing and Theory with GMTSAR
Scripps Institution of Oceanography
- 2018 Best Practices for Modern Open-Source Research Codes
AGU Fall Meeting 2018
- InSAR Processing and Theory with GMTSAR
Scripps Institution of Oceanography
- Git and Github: What are their uses? Are they worth the effort? Let's find out!
ASPRS UHM Student Chapter, University of Hawai'i at Mānoa
- 2017 Introduction to Python
Department of Geology and Geophysics, University of Hawai'i at Mānoa
- 2016 Python for Geologists
Faculdade de Geologia, Universidade do Estado do Rio de Janeiro
- Python for Earth Scientists
Departamento de Geofísica, Universidade de São Paulo
- 2014 Introduction to Geophysical Inversion
Instituto de Geociências, Universidade de Brasília
- 2011 Introduction to Geophysical Inversion
Departamento de Geofísica, Universidade de São Paulo

STUDENT SUPERVISION

PhD

- 2017– Santiago R. Soler (co-Advising)
Universidad Nacional de San Juan, Argentina.
Advisor: Mario E. Gimenez

UNDERGRADUATE

- 2019–2020 Final year project cohort: Lottie Cooper, Steven Heer, Charles Thomson, and Alexander Borges. University of Liverpool, UK.
- 2015–2017 Vinicius V. Riguete
Universidade do Estado do Rio de Janeiro, Brazil.

OUTREACH

I maintain a blog about my research, geoscience, and programming at leouieda.com/blog

- 2018 Interviewed by the geoscience podcast *Don't Panic Geocast*, episode 166 “*You are headed to a warm and sunny place*”: dontpanicgeocast.com/?p=638
- 2017 Volunteer for the *Hour of Code* at Salt Lake Elementary School, Honolulu, USA.

- 2016 Interviewed by the geoscience podcast *Undersampled Radio*, episode “Open Sourcery”: undersampledrad.io/home/2016/7/open-sourcery

Geophysical tutorials for the SEG publication *The Leading Edge*:

- 2017 **Uieda, L.** Step-by-step NMO correction, *The Leading Edge*, doi:[10.1190/tle36020179.1](https://doi.org/10.1190/tle36020179.1).
- 2014 **Uieda, L.**, Oliveira Jr, VC, Barbosa, VCF. Geophysical tutorial: Euler deconvolution of potential-field data, *The Leading Edge*, doi:[10.1190/tle33040448.1](https://doi.org/10.1190/tle33040448.1).

PRESENTATIONS

- future **Uieda, L.**, Soler, SR. Evaluating the accuracy of equivalent-source predictions using cross-validation, *EGU 2020*, Vienna, Austria.
- 2020 [Invited] **Uieda, L.** Geophysical research powered by open-source, *Geographic Data Science Lab, University of Liverpool*, Liverpool, UK. leouieda.com/liverpool-gdsl-2020.
- 2019 **Uieda, L.**, Wessel, P. PyGMT: Accessing the Generic Mapping Tools from Python, *AGU 2019*, San Francisco, USA. doi:[10.6084/m9.figshare.11320280](https://doi.org/10.6084/m9.figshare.11320280).
- Uieda, L.** Building the foundations for open-source geophysics, *Department of Earth, Ocean and Ecological Sciences, University of Liverpool*, UK. doi:[10.6084/m9.figshare.10255832](https://doi.org/10.6084/m9.figshare.10255832).
- 2018 **Uieda, L.**, Xu, X, Wessel, P, Sandwell, DT. Coupled Interpolation of Three-component GPS Velocities, *AGU 2018*, Washington DC, USA. doi:[10.6084/m9.figshare.7440683](https://doi.org/10.6084/m9.figshare.7440683).
- Uieda, L.** Machine Learning Lessons for Geophysics, *Department of Earth Sciences, University of Hawai‘i at Mānoa*, Honolulu, USA. doi:[10.6084/m9.figshare.7203344](https://doi.org/10.6084/m9.figshare.7203344).
- Uieda, L.**, Wessel, P. Building an object-oriented Python interface for the Generic Mapping Tools, *Scipy 2018*, Austin, USA. doi:[10.6084/m9.figshare.6814052](https://doi.org/10.6084/m9.figshare.6814052). recording: youtu.be/6wMtfZXfTRM
- Uieda, L.**, Sandwell, DT, Wessel, P. Joint Interpolation of 3-component GPS Velocities Constrained by Elasticity, *AOGS 15th Annual Meeting*, Honolulu, USA. doi:[10.6084/m9.figshare.6387467](https://doi.org/10.6084/m9.figshare.6387467).
- Uieda, L.**, Wessel, P. Integrating the Generic Mapping Tools with the Scientific Python Ecosystem, *AOGS 15th Annual Meeting*, Honolulu, USA. doi:[10.6084/m9.figshare.6399944](https://doi.org/10.6084/m9.figshare.6399944).
- 2017 [Invited] **Uieda, L.**, Wessel, P. Nurturing reliable and robust open-source scientific software, *AGU Fall Meeting 2017*, New Orleans, USA. recording: youtu.be/0GO4ZZ5Ry6M

- Uieda, L**, Wessel, P. A modern Python interface for the Generic Mapping Tools, *AGU Fall Meeting 2017*, New Orleans, USA. doi:[10.6084/m9.figshare.5662411](https://doi.org/10.6084/m9.figshare.5662411).
- Uieda, L**, Wessel, P. Bringing the Generic Mapping Tools to Python, *Scipy 2017*, Austin, USA. doi:[10.6084/m9.figshare.7635833](https://doi.org/10.6084/m9.figshare.7635833). recording: youtu.be/93M4How7R24
- Uieda, L**. Inverting gravity to map the Moho: A new method and the open source software that made it possible, *Department of Geology and Geophysics, University of Hawai'i at Mānoa*, Honolulu, USA. doi:[10.6084/m9.figshare.4779766](https://doi.org/10.6084/m9.figshare.4779766).
- 2016 [Invited] **Uieda, L**. Fatiando a Terra: construindo uma base para ensino e pesquisa de geofísica, *Observatório Nacional*, Rio de Janeiro, Brazil.
- 2015 [Invited] **Uieda, L**. Fatiando a Terra: construindo uma base para ensino e pesquisa de geofísica, *Universidade de São Paulo*, São Paulo, Brazil. doi:[10.6084/m9.figshare.1381870](https://doi.org/10.6084/m9.figshare.1381870).
- 2014 **Uieda, L**, Oliveira Jr, VC, Barbosa, VCF. Using Fatiando a Terra to solve inverse problems in geophysics, *Scipy 2014*, Austin, USA. doi:[10.6084/m9.figshare.1089987](https://doi.org/10.6084/m9.figshare.1089987).
- Uieda, L**, Barbosa, VCF. Gravity inversion in spherical coordinates using tesseroids, *EGU General Assembly 2014*, Vienna, Austria. doi:[10.6084/m9.figshare.1155457](https://doi.org/10.6084/m9.figshare.1155457).
- 2013 **Uieda, L**, Oliveira Jr, VC, Barbosa, VCF. Modeling the Earth with Fatiando a Terra, *Scipy 2013*, Austin, USA. doi:[10.25080/Majora-8b375195-010](https://doi.org/10.25080/Majora-8b375195-010). recording: youtu.be/Ec38h1oB8cc
- Uieda, L**, Barbosa, VCF. 3D magnetic inversion by planting anomalous densities, *AGU Meeting of the Americas*, Cancun, Mexico. doi:[10.6084/m9.figshare.703651](https://doi.org/10.6084/m9.figshare.703651).
- 2012 Carlos, DU, **Uieda, L**, Li, Y, Barbosa, VCF, Braga, MA, Angeli, G, Peres, G. Iron ore interpretation using gravity-gradient inversions in the Carajás, Brazil, *SEG Annual Meeting 2012*, Las Vegas, USA. doi:[10.6084/m9.figshare.156865](https://doi.org/10.6084/m9.figshare.156865).
- Uieda, L**, Barbosa, VCF. Use of the “shape-of-anomaly” data misfit in 3D inversion by planting anomalous densities, *SEG Annual Meeting 2012*, Las Vegas, USA. doi:[10.6084/m9.figshare.156864](https://doi.org/10.6084/m9.figshare.156864).
- Uieda, L**, Barbosa, VCF. Rapid 3D inversion of gravity and gravity gradient data to test geologic hypotheses, *International Symposium on Gravity, Geoid and Height Systems*, Venice, Italy. doi:[10.6084/m9.figshare.156859](https://doi.org/10.6084/m9.figshare.156859).
- 2011 **Uieda, L**, Barbosa, VCF. Robust 3D gravity gradient inversion by planting anomalous densities, *SEG Annual Meeting 2011*, San Antonio, USA. doi:[10.6084/m9.figshare.156863](https://doi.org/10.6084/m9.figshare.156863).
- Uieda, L**, Barbosa, VCF. 3D gravity inversion by planting anomalous densities, *Internation Congress of the Brazilian Geophysical Society*, Rio de Janeiro, Brazil. doi:[10.6084/m9.figshare.156861](https://doi.org/10.6084/m9.figshare.156861).

Uieda, L, Bomfim, EP, Braitenberg, C, Molina, E. Optimal forward calculation method of the Marussi tensor due to a geologic structure at GOCE height, *4th International GOCE User Workshop*, Munich, Germany. doi:[10.6084/m9.figshare.92624](https://doi.org/10.6084/m9.figshare.92624).

Uieda, L, Barbosa, VCF. 3D gravity gradient inversion by planting density anomalies, *73th EAGE Conference and Exhibition incorporating SPE EUROPEC*, Vienna, Austria. doi:[10.6084/m9.figshare.91511](https://doi.org/10.6084/m9.figshare.91511).

2010 **Uieda, L**, Ussami, N, Braitenberg, C. Computation of the gravity gradient tensor due to topographic masses using tesseroids, *AGU Meeting of the Americas*, Foz do Iguaçu, Brazil. doi:[10.6084/m9.figshare.156858](https://doi.org/10.6084/m9.figshare.156858).

2008 **Uieda, L**, Ussami, N. Utilização de tesseróides na modelagem de dados de gradiometria gravimétrica, *XIII Simpósio de Iniciação Científica do IAG-USP*, São Paulo, Brazil. doi:[10.6084/m9.figshare.4779760](https://doi.org/10.6084/m9.figshare.4779760).

2006 **Uieda, L**, D'Agrella-Filho, MS. Paleomagnetismo e mineralogia magnética dos diques cambrianos de Maravilhas e Prata (PB), *XI Simpósio de Iniciação Científica do IAG/USP*, São Paulo, Brazil. doi:[10.6084/m9.figshare.4779769](https://doi.org/10.6084/m9.figshare.4779769).

ACADEMIC SERVICE & AFFILIATIONS

EDITOR

2019– Topic editor for the *Journal of Open Source Software*

REVIEWER

Geophysical Journal International – Journal of Geodesy – Pure and Applied Geophysics – Journal of Applied Geophysics – Geophysical Prospecting – Geophysics – Central European Journal of Geosciences – Computers & Geosciences – Journal of Open Source Software

COMMITTEES

2015 Chairman of the Election Committee for the deans of the University and the School of Geology, Universidade do Estado do Rio de Janeiro

2015–2017 Faculty Advisor for the Student Chapter of the Society of Exploration Geophysicists (SEG) at the Universidade do Estado do Rio de Janeiro.

CONVENER

2019 Townhall: Update and Future Directions of the Open-Source Software Initiative.
Uieda, L, Heagy, LJ, Krischer, L, Gassmoeller, R, Sullivan, CB.
AGU 2019, San Francisco, USA.

Session: NS21A - A Tour of Open-Source Software Packages for the Geosciences.
Heagy, LJ, Gassmoeller, R, **Uieda, L**, Klump, JF.
AGU 2019, San Francisco, USA.

2018 Townhall: The role of an open-source software initiative within the AGU.
Heagy, LJ, Krischer, L, **Uieda, L**.
AGU 2018, Washington DC, USA.

AFFILIATIONS

2010– American Geophysical Union
2011– Society of Exploration Geophysicists
2014– European Geosciences Union

OTHER

2019– Member of the EarthArXiv Advisory Council

LANGUAGES

Portuguese Native
English IELTS: CEFR Level C2 (mastery or proficiency) obtained in 2019