

Dr. Leonardo Uieda

Last updated: April, 2023

ORCID: [0000-0001-6123-9515](https://orcid.org/0000-0001-6123-9515)
Email: uieda@liverpool.ac.uk
Research group: www.compgeolab.org
Website: www.leouieda.com

Jane Herdman Building
4 Brownlow Street
Liverpool, L69 3GP
United Kingdom

Professional Appointments

- 2019 – on **Lecturer**
Department of Earth, Ocean and Ecological Sciences
School of Environmental Sciences
University of Liverpool, UK
- 2018 – on **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

- 2011 – 2016 **PhD in Geophysics**, Observatório Nacional, Brazil
- 2010 – 2011 **MSc in Geophysics**, Observatório Nacional, Brazil
- 2008 – 2009 **International Exchange** (1 year), York University, Canada
- 2004 – 2009 **BSc in Geophysics**, Universidade de São Paulo, Brazil

Grants & Fellowships

- 2022 – 2024 “Towards individual-grain paleomagnetism: Translating regional-scale geophysics to the nascent field of magnetic microscopy”. **PI: Uieda, L**, co-PI: Trindade, RIF. Funder: Royal Society (International Exchanges 2021 Round 3). *University of Liverpool*. Award: IES\R3\213141
- 2020 – 2023 “A Sustainable Plan for the Future of the Generic Mapping Tools”. PI: Wessel, P, **co-PI: Uieda, L**. Funder: NSF (EAR). *University of Hawai‘i at Mānoa*. Award: [1948602](#).
- 2020 SSI Fellowship 2020. **Uieda, L**. Funder: Software Sustainability Institute. *University of Liverpool*. More information: software.ac.uk/about/fellows/leonardo-uieda




- 2018 – 2020 “The EarthScope/GMT Analysis and Visualization Toolbox”. PI: Wessel, P, **co-PI: Uieda, L**, co-PI: Smith-Konter, B. Funder: NSF (EAR). *University of Hawai‘i at Mānoa*. Award: [1829371](#).
- 2014 – 2018 QUALITEC/UERJ Grant for training a technician for the Laboratory of Exploration Geophysics - Universidade do Estado do Rio de Janeiro

Open Science

Open-source Software

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

FAIR Data

- 2021 **Uieda, L.** Fatiando a Terra Datasets: A curated collection of open (FAIR) geophysics data for tutorials and documentation. 
- 2020 **Uieda, L.** Ground gravity data compilation for Australia filtered by survey quality and packaged in CF-compliant netCDF (derived from the Geoscience Australia compilation by [Wynne \(2018\)](#)). doi:[10.6084/m9.figshare.13643837](https://doi.org/10.6084/m9.figshare.13643837) 
- 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) 

Academic Service

Editor

- 2019 – 2022 Topic editor, *Journal of Open Source Software*

Internal Roles

- 2022 – on Programme Director for Geophysics, *University of Liverpool*.
- 2022 – on Admissions Tutor for Geophysics, *University of Liverpool*.

- 2020 – on Early Career Academic (ECA) Representative for Earth Sciences, *University of Liverpool*.
- 2020 – 2022 Department committee for web presence (website, social media, etc), *University of Liverpool*.
- 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 Society of Exploration Geophysicists (SEG) Student Chapter, *Universidade do Estado do Rio de Janeiro*.

External (Community) Roles

- 2022 – on Board Member, *Software Underground*
- 2021 – on Code of Conduct Working Group, *Software Underground*
- 2019 – 2021 Advisory Council, *EarthArXiv*

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

Thesis Examiner

- 2022 External PhD thesis examiner (Peter Haas), Christian-Albrechts-Universität zu Kiel.
- 2022 Internal PhD thesis examiner (Yael Annemiek Engbers), University of Liverpool.
- 2016 Internal MSc dissertation examiner (Natacha Medeiros Rocha), Universidade do Estado do Rio de Janeiro.

Conference Convener

- 2021 Session: EOS5.3 - The evolving open-science landscape in geosciences: open data, software, publications and community initiatives.
Nijzink, RC, Drost, N, Farquharson, J, Kushnir, A, Pianosi, F, Schymanski, S, **Uieda, L**, Wadsworth, F.
EGU 2021, Vienna, Austria.
- Session: G4.3 - Acquisition and processing of gravity and magnetic field data and their integrative interpretation.
Ebbing, J, Braitenberg, C, Guy, A, Kaban, MK, **Uieda, L**.
EGU 2021, Vienna, Austria.

- 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.




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
- 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**

















Teaching




Undergraduate

- 2020 – on ENVS398: Global Geophysics and Geodynamics
 Teaching lithosphere dynamics (50% of module)
 Module coordinator from 2021
University of Liverpool
- 2020 – on ENVS258: Environmental Geophysics
 Teaching remote sensing, gravimetry, and Python programming (~50% of module)
University of Liverpool
- 2020 – on ENVS386: Geophysical Data Modelling
 Teaching lectures on non-linear inversion and machine learning
University of Liverpool
- 2020 – on ENVS101/106: Study Skills and GIS (tutorial)
 Leading small group tutorials and a Python programming workshop
University of Liverpool

2019 – on	ENVS363: Geophysical Exploration Techniques (field) Part of the teaching team for geophysical field methods <i>University of Liverpool</i>	
2019 – 2021	ENVS123: Introduction to Geoscience and Earth History Lectures on: Earth's internal structure; gravity and isostasy <i>University of Liverpool</i>	
2014 – 2016	Special Mathematics I: Introduction to Programming and Numerical Analysis <i>Universidade do Estado do Rio de Janeiro</i>	
2014 – 2016	Geophysics I: Gravity and magnetic methods <i>Universidade do Estado do Rio de Janeiro</i>	
2014 – 2016	Geophysics II: Exploration Seismology <i>Universidade do Estado do Rio de Janeiro</i>	
2015	Introduction to Geology <i>Universidade do Estado do Rio de Janeiro</i>	

Workshops & Short Courses

2022	Crafting beautiful maps with PyGMT. <i>EGU 2022</i>	
	A geophysical tour of mid-ocean ridges. <i>Transform 2022</i> (online)	 
2021	The Generic Mapping Tools for Geodesy. <i>UNAVCO</i> (online)	
2020	Let's build a geophysical inversion with Python. <i>IRTG-2379 Graduate School: Modern Inverse Problems, RWTH Aachen University</i> (online)	
	The Generic Mapping Tools for Geodesy. <i>UNAVCO</i> (online)	 
	From scattered data to gridded products using Verde. <i>Transform 2020</i> (online)	 
2019	Best Practices for Developing and Sustaining Your Open-Source Research Software. <i>AGU Fall Meeting 2019</i>	
	Become a Generic Mapping Tools Contributor Even If You Can't Code. <i>AGU Fall Meeting 2019</i>	
	The Generic Mapping Tools for Geodesy. <i>Scripps Institution of Oceanography and UNAVCO</i>	 
	Introduction to Python Workshop (Earth Sciences REU program). <i>Department of Geology and Geophysics, University of Hawai'i at Mānoa</i>	
2018	Best Practices for Modern Open-Source Research Codes. <i>AGU Fall Meeting 2018</i>	
	Git and GitHub: What are their uses? Are they worth the effort? Let's find out! <i>ASPRS UHM Student Chapter, University of Hawai'i at Mānoa</i>	
2017	Introduction to Python. <i>Department of Geology and Geophysics, University of Hawai'i at Mānoa</i>	
2016	Python for Geologists (SAGEO). <i>Faculdade de Geologia, Universidade do Estado do Rio de Janeiro</i>	

- Python for Earth Scientists (IAG Summer School). *Departamento de Geofísica, Universidade de São Paulo* 
- 2014 Introduction to Geophysical Inversion. *Instituto de Geociências, Universidade de Brasília* 
- 2011 Introduction to Geophysical Inversion (IAG Summer School). *Departamento de Geofísica, Universidade de São Paulo* 

Student supervision

PhD (main advisor)

- 2021 – on India Uppal
University of Liverpool, UK.
Co-advisors: Vanderlei C. Oliveira Jr., Richard Holme

PhD (co-advisor)

- 2021 – on Gelson Ferreira de Souza Junior
Universidade de São Paulo, Brazil.
Advisor: Ricardo I.F. Trindade
- 2017 – 2022 Santiago R. Soler
Universidad Nacional de San Juan, Argentina.
Advisor: Mario E. Gimenez

Master's

- 2020 – 2021 Aidan Hernaman
University of Liverpool, UK.

Undergraduate
















- 2022 – 2023 Junpeng Liu
University of Liverpool, UK.
- 2021 – 2022 Sarah Askeveld, Laura Nicholls, and Hamed R.H. Al-Salehi
University of Liverpool, UK.
- 2020 – 2021 Majed M.A. Abura, Ali A.A. Alhazmi, Daniel P. Gilbert, and Mustafa M.M. Alordowny
University of Liverpool, UK.
- 2019 – 2020 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.


Media & Outreach

- 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















































































Publications





Peer-reviewed Papers

- 2021 Soler, SR, **Uieda, L.** Gradient-boosted equivalent sources. *Geophysical Journal International*. doi:[10.1093/gji/ggab297](https://doi.org/10.1093/gji/ggab297).  
- 2020 **Uieda, L.**, Soler, SR, Rampin, R, van Kemenade, H, Turk, M, Shapero, D, Banihirwe, A, Leeman, J. Pooch: A friend to fetch your data files. *Journal of Open Source Software*. doi:[10.21105/joss.01943](https://doi.org/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](https://doi.org/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](https://doi.org/10.1093/gji/ggz277).  
- 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). 
- 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).  
- 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                                                                              


























- 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).  


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) 

Presentations










Invited & Keynotes

- 2022 **Uieda, L.** Getting started with Open Science, *SPIN SPIN-ITN: Seismological Parameters and Instrumentation*, Online.  
- 2021 **Uieda, L.**, Li, L, Soler, SR, Pesce, A. Design useful tools that do one thing well and work together: rediscovering the UNIX philosophy while building the Fatiando a Terra project, *AGU 2021*, Online.  
- Uieda, L.**, Soler, SR. Python-based workflows for small-to-medium sized data: what works, what doesn't, and what can be improved, *AGU 2021*, Online.  
- Uieda, L.** Academia e software livre: Desafios e oportunidades no Brasil e no exterior, *National Observatory's SEG and EAGE Student Chapter*, Rio de Janeiro, Brazil.   
- Uieda, L.**, Soler, SR, Pesce, A. Open-science for gravimetry: tools, challenges, and opportunities, *GFZ Helmholtz Centre Potsdam*, Germany.   
- Uieda, L.**, Soler, SR, Pesce, A. Fatiando a Terra: Open-source tools for geophysics, *Geophysical Society of Houston*, Houston, USA.  
- 2020 **Uieda, L.** Geophysical research powered by open-source, *Christian Albrechts Universität zu Kiel*, Kiel, Germany.  
- Uieda, L.** Geophysical research powered by open-source, *Departamento de Geofísica, IAG, Universidade de São Paulo*, São Paulo, Brazil.   
- Uieda, L.** Geophysical research powered by open-source, *Technische Universität Bergakademie Freiberg*, Freiberg, Germany.  
- Uieda, L.** Geophysical research powered by open-source, *Geographic Data Science Lab, University of Liverpool*, Liverpool, UK.  
- 2017 **Uieda, L.**, Wessel, P. Nurturing reliable and robust open-source scientific software, *AGU Fall Meeting 2017*, New Orleans, USA. 
- 2016 **Uieda, L.** Fatiando a Terra: construindo uma base para ensino e pesquisa de geofísica, *Observatório Nacional*, Rio de Janeiro, Brazil. 

- 2015 **Uieda, L.** Fatiando a Terra: construindo uma base para ensino e pesquisa de geofísica, *Universidade de São Paulo*, São Paulo, Brazil. 

Other Presentations

- 2021 **Uieda, L.**, Soler, SR, Pesce, A, Perozzi, L, Wieczorek, MA. Harmonica and Boule: Modern Python tools for geophysical gravimetry, *EGU 2021*, Online. doi:[10.5194/egusphere-egu21-8291](https://doi.org/10.5194/egusphere-egu21-8291). 
- 2020 **Uieda, L.**, Soler, SR. Evaluating the accuracy of equivalent-source predictions using cross-validation, *EGU 2020*, Vienna, Austria. doi:[10.5194/egusphere-egu2020-15729](https://doi.org/10.5194/egusphere-egu2020-15729). 
- 2019 **Uieda, L.**, Wessel, P. PyGMT: Accessing the Generic Mapping Tools from Python, *AGU 2019*, San Francisco, USA. 
- Uieda, L.** Building the foundations for open-source geophysics, *Department of Earth, Ocean and Ecological Sciences, University of Liverpool*, UK. 
- 2018 **Uieda, L.**, Xu, X, Wessel, P, Sandwell, DT. Coupled Interpolation of Three-component GPS Velocities, *AGU 2018*, Washington DC, USA. 
- Uieda, L.** Machine Learning Lessons for Geophysics, *Department of Earth Sciences, University of Hawai'i at Mānoa*, Honolulu, USA. 
- Uieda, L.**, Wessel, P. Building an object-oriented Python interface for the Generic Mapping Tools, *Scipy 2018*, Austin, USA.  
- Uieda, L.**, Sandwell, DT, Wessel, P. Joint Interpolation of 3-component GPS Velocities Constrained by Elasticity, *AOGS 15th Annual Meeting*, Honolulu, USA. 
- Uieda, L.**, Wessel, P. Integrating the Generic Mapping Tools with the Scientific Python Ecosystem, *AOGS 15th Annual Meeting*, Honolulu, USA. 
- 2017 **Uieda, L.**, Wessel, P. A modern Python interface for the Generic Mapping Tools, *AGU Fall Meeting 2017*, New Orleans, USA. 
- Uieda, L.**, Wessel, P. Bringing the Generic Mapping Tools to Python, *Scipy 2017*, Austin, USA.  
- 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. 
- 2014 **Uieda, L.**, Oliveira Jr, VC, Barbosa, VCF. Using Fatiando a Terra to solve inverse problems in geophysics, *Scipy 2014*, Austin, USA. 
- Uieda, L.**, Barbosa, VCF. Gravity inversion in spherical coordinates using tesseroids, *EGU General Assembly 2014*, Vienna, Austria. 
- 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).  
- Uieda, L.**, Barbosa, VCF. 3D magnetic inversion by planting anomalous densities, *AGU Meeting of the Americas*, Cancun, Mexico. 
- 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:[10.1190/segam2012-0525.1](https://doi.org/10.1190/segam2012-0525.1). 

- 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:[10.1190/segam2012-0383.1](https://doi.org/10.1190/segam2012-0383.1). 
- 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. 
- 2011 **Uieda, L.**, Barbosa, VCF. Robust 3D gravity gradient inversion by planting anomalous densities, *SEG Annual Meeting 2011*, San Antonio, USA. doi:[10.1190/1.3628201](https://doi.org/10.1190/1.3628201). 
- Uieda, L.**, Barbosa, VCF. 3D gravity inversion by planting anomalous densities, *International Congress of the Brazilian Geophysical Society*, Rio de Janeiro, Brazil. doi:[10.1190/sbgf2011-179](https://doi.org/10.1190/sbgf2011-179). 
- 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. 
- Uieda, L.**, Barbosa, VCF. 3D gravity gradient inversion by planting density anomalies, *73th EAGE Conference and Exhibition incorporating SPE EUROPEC*, Vienna, Austria. doi:[10.3997/2214-4609.20149567](https://doi.org/10.3997/2214-4609.20149567). 
- 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. 
- 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. 
- 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. 

Miscellaneous

Professional society membership

2022 – on	Society of Research Software Engineering
2020 – on	Royal Astronomical Society
2014 – on	Software Underground
2014 – on	European Geosciences Union
2010 – on	American Geophysical Union
2011 – 2019	Society of Exploration Geophysicists

Languages

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

Glossary

These are the meanings of the symbols used throughout this document:

- Ⓐ Indicates that a publication is open-access
- 🔗 Link to a code repository on GitHub
- 📄 Link to an open-access PDF, usually a preprint or postprint
- 📺 Link to a video on YouTube
- 📊 Link to a data archive
- 📺 Link to presentation slides
- 📄 Link to a poster