Dr. Leonardo Uieda

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Email: Leonardo.Uieda@liverpool.ac.uk Research group: www.compgeolab.org

Website: www.leouieda.com

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

Last updated: October, 2022

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	DhD in Coonbysics	Observatório Nacional	l Brazil
2011 - 2010	LIID III GEODIIASICS	Observatorio macrona	ı, Di azıı

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). <i>University of Liverpool</i> . 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.
- 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

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

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

Academic Service

Editor

2019 – on Topic editor, Journal of Open Source Software

Internal Roles

2022 – on	Programme l	Director for	Geophysics,	University of Liverpo	ol.
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- 2022 on Admissions Tutor for Geophysics, *University of Liverpool*.
- 2020 on Department committee for web presence (website, social media, etc), *University of Liverpool*.
- 2020 on Early Career Academic (ECA) Representative for Earth Sciences, *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 – on 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

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.

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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 Antornio, 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

0	
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 (\sim 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 University of Liverpool
2019 – 2021	ENVS123: Introduction to Geoscience and Earth History Lectures on: Earth's internal structure; gravity and isostasy University of Liverpool
2014 – 2016	Special Mathematics I: Introduction to Programming and Numerical Analysis Universidade do Estado do Rio de Janeiro

2014 – 2016	Geophysics I: Gravity and magnetic methods Universidade do Estado do Rio de Janeiro	0
2014 – 2016	Geophysics II: Exploration Seismology Universidade do Estado do Rio de Janeiro	0
2015	Introduction to Geology Universidade do Estado do Rio de Janeiro	
Workshop	os & Short Courses	
2022	Crafting beautiful maps with PyGMT. EGU 2022	0
	A geophysical tour of mid-ocean ridges. Transform 2022 (online)	0
2021	The Generic Mapping Tools for Geodesy. UNAVCO (online)	0
2020	Let's build a geophysical inversion with Python. IRTG-2379 Graduate School: Modern Inverse Problems, RWTH Aachen University (online)	0
	The Generic Mapping Tools for Geodesy. UNAVCO (online)	0
	From scattered data to gridded products using Verde. Transform 2020 (online)	0
2019	Best Practices for Developing and Sustaining Your Open-Source Research Software. AGU Fall Meeting 2019	0
	Become a Generic Mapping Tools Contributor Even If You Can't Code. <i>AGU Fall Meeting</i> 2019	
	The Generic Mapping Tools for Geodesy. Scripps Institution of Oceanography and UNAVCO	0
	Introduction to Python Workshop (Earth Sciences REU program). Department of Geology and Geophysics, University of Hawai'i at Mānoa	0
2018	Best Practices for Modern Open-Source Research Codes. AGU Fall Meeting 2018	0
	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 Hawaiʻi at Mānoa	0
2016	Python for Geologists (SAGEO). Faculdade de Geologia, Universidade do Estado do Rio de Janeiro	0
	Python for Earth Scientists (IAG Summer School). Departamento de Geofísica, Universidade de São Paulo	0
2014	Introduction to Geophysical Inversion. <i>Instituto de Geociências, Universidade de Brasília</i>	0
2011	Introduction to Geophysical Inversion (IAG Summer School). Departamento de Geofísica, Universidade de São Paulo	0

Student supervision

India Uppal 2021 - on

University of Liverpool, UK.

Co-advisors: Vanderlei C. Oliveira Jr., Richard Holme

PhD (co-advisor)

2021 - onGelson Ferreira de Souza Junior

> Universidade de São Paulo, Brazil. Advisor: Ricardo I.F. Trindade

Santiago R. Soler 2017 - 2022

Universidad Nacional de San Juan, Argentina.

Advisor: Mario E. Gimenez

Master's

2020 - 2021Aidan Hernaman

University of Liverpool, UK.

Undergraduate

2022 - 2023Junpeng Liu

University of Liverpool, UK.

2021 - 2022Sarah Askevold, Laura Nicholls, and Hamed R.H. Al-Salehi

University of Liverpool, UK.

Majed M.A. Abura, Ali A.A. Alhazmi, Daniel P. Gilbert, and Mustafa M.M. Alordowny 2020 - 2021

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

Volunteer for the Hour of Code at Salt Lake Elementary School, Honolulu, USA. 2017

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.





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. <i>Journal of Open Source Software</i> . doi:10.21105/joss.01943.	8	O
2019	Wessel, P, Luis, J, Uieda, L , Scharroo, R, Wobbe, F, Smith, WHF, Tian, D. The Generic Mapping Tools, Version 6. <i>Geochemistry, Geophysics, Geosystems</i> . doi:10.1029/2019GC008515.	8	
	Soler, SR, Pesce, A, Gimenez, ME, Uieda, L . Gravitational field calculation in spherical coordinates using variable densities in depth. <i>Geophysical Journal International</i> . doi:10.1093/gji/ggz277.	0	£
	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. <i>Journal of Geophysical Research: Solid Earth</i> . doi:10.1029/2019jb017691.	<u> </u>	
2018	Uieda, L. Verde: Processing and gridding spatial data using Green's functions. <i>Journal of Open Source Software</i> . doi:10.21105/joss.00957.	8	0
2017	Uieda, L , Barbosa, VCF. Fast non-linear gravity inversion in spherical coordinates with application to the South American Moho, <i>Geophysical Journal International</i> , doi:10.1093/gji/ggw390.	0	£
2016	Uieda, L , Barbosa, VCF, Braitenberg, C. Tesseroids: forward modeling gravitational fields in spherical coordinates, <i>Geophysics</i> , doi:10.1190/geo2015-0204.1.	0	
	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), <i>Journal of Applied Geophysics</i> , doi: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, <i>Nonlinear Processes in Geophysics</i> , doi:10.5194/npg-22-215-2015.	8	O
2014	Carlos, DU, Uieda , L , Barbosa, VCF. Imaging iron ore from the Quadrilátero Ferrífero (Brazil) using geophysical inversion and drill hole data, <i>Ore Geology Reviews</i> , doi: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, <i>Geophysics</i> , doi:10.1190/geo2012-0515.1.		
	Oliveira Jr, VC, Barbosa, VCF, Uieda , L . Polynomial equivalent layer, <i>Geophysics</i> ,		

Peer-reviewed Conference Proceedings

2012

doi:10.1190/geo2012-0196.1.

densities, Geophysics, doi:10.1190/geo2011-0388.1.

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.

Uieda, L, Barbosa, VCF. Robust 3D gravity gradient inversion by planting anomalous

2013	Uieda, L , Oliveira Jr, VC, Barbosa, VCF. Modeling the Earth with Fatiando a Terra, <i>Proceedings of the 12th Python in Science Conference</i> . doi: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, <i>SEG Technical Program Expanded Abstracts</i> , doi:10.1190/segam2012-0383.1.	0 🗖
	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. <i>SEG Technical Program Expanded Abstracts</i> , doi: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, <i>Proceedings of the 4th International GOCE User Workshop</i> .	(7)
	Uieda, L , Barbosa, VCF. Robust 3D gravity gradient inversion by planting anomalous densities, <i>SEG Technical Program Expanded Abstracts</i> , doi:10.1190/1.3628201.	0 🗖
	Uieda, L , Barbosa, VCF. 3D gravity inversion by planting anomalous densities. <i>12th International Congress of the Brazilian Geophysical Society</i> , doi:10.1190/sbgf2011-179.	0 🗖
	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.	() <u>m</u>
	Carlos, DU, Uieda , L , Barbosa, VCF, Braga, MA, Gomes, AAS. In-depth imaging of an iron orebody from Quadrilatero Ferrifero using 3D gravity gradient inversion, <i>SEG Technical Program Expanded Abstracts</i> , doi:10.1190/1.3628219.	
	Carlos, DU, Barbosa, VCF, Uieda, L , Braga, MA. Inversão de Dados de Aerogradiometria Gravimétrica 3D-FTG Aplicada a Exploração Mineral na Região do Quadrilátero Ferrífero, <i>12th International Congress of the Brazilian Geophysical Society</i> , doi:10.1190/sbgf2011-243.	
Non-peer-	-reviewed Papers	
2017	Uieda, L . Step-by-step NMO correction, <i>The Leading Edge</i> , doi:10.1190/tle36020179.1.	a ()
2014	Uieda, L , Oliveira Jr, VC, Barbosa, VCF. Geophysical tutorial: Euler deconvolution of potential-field data, <i>The Leading Edge</i> , doi:10.1190/tle33040448.1.	a ;
Preprints		

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*

Presentations

2019

Invited & Keynotes

Preprints. doi:10.31219/osf.io/f4vx6

2022	Uieda , L . Getting started with Open Science, <i>SPIN SPIN-ITN</i> : Seismological Parameters and Instrumentation, Online.	0 🗖
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, <i>AGU 2021</i> , Online.	0 🗖
	Uieda , L , Soler, SR. Python-based workflows for small-to-medium sized data: what works, what doesn't, and what can be improved, <i>AGU 2021</i> , Online.	೧ □
	Uieda, L . Academia e software livre: Desafios e oportunidades no Brasil e no exterior, <i>National Observatory's SEG and EAGE Student Chapter</i> , Rio de Janeiro, Brazil.	○
	Uieda , L , Soler, SR, Pesce, A. Open-science for gravimetry: tools, challenges, and opportunities, <i>GFZ Helmholtz Centre Potsdam</i> , Germany.	೧ □
	Uieda , L , Soler, SR, Pesce, A. Fatiando a Terra: Open-source tools for geophysics, <i>Geophysical Society of Houston</i> , Houston, USA.	0 🗖
2020	Uieda, L. Geophysical research powered by open-source, <i>Christian Albrechts Universität zu Kiel</i> , Kiel, Germany.	0 🗖
	Uieda, L . Geophysical research powered by open-source, <i>Departamento de Geofísica, IAG, Universidade de São Paulo</i> , São Paulo, Brazil.	೧ □
	Uieda, L . Geophysical research powered by open-source, <i>Technische Universität Bergakademie Freiberg</i> , Freiberg, Germany.	0 🗖
	Uieda, L . Geophysical research powered by open-source, <i>Geographic Data Science Lab</i> , <i>University of Liverpool</i> , Liverpool, UK.	0 🗖
2017	Uieda, L , Wessel, P. Nurturing reliable and robust open-source scientific software, <i>AGU Fall Meeting 2017</i> , New Orleans, USA.	
2016	Uieda, L . Fatiando a Terra: construindo uma base para ensino e pesquisa de geofísica, <i>Observatório Nacional</i> , Rio de Janeiro, Brazil.	
2015	Uieda, L . Fatiando a Terra: construindo uma base para ensino e pesquisa de geofísica, <i>Universidade de São Paulo</i> , São Paulo, Brazil.	₽
Other Pre	esentations	
2021	Uieda, L , Soler, SR, Pesce, A, Perozzi, L, Wieczorek, MA. Harmonica and Boule: Modern Python tools for geophysical gravimetry, <i>EGU 2021</i> , Online. doi:10.5194/egusphere-egu21-8291.	0
2020	Uieda , L, Soler, SR. Evaluating the accuracy of equivalent-source predictions using cross-validation, <i>EGU 2020</i> , Vienna, Austria. doi:10.5194/egusphere-egu2020-15729.	
2019	Uieda, L , Wessel, P. PyGMT: Accessing the Generic Mapping Tools from Python, <i>AGU</i> 2019, San Francisco, USA.	
	Uieda , L . Building the foundations for open-source geophysics, <i>Department of Earth</i> , <i>Ocean and Ecological Sciences</i> , <i>University of Liverpool</i> , UK.	—
2018	Uieda, L , Xu, X, Wessel, P, Sandwell, DT. Coupled Interpolation of Three-component GPS Velocities, <i>AGU 2018</i> , Washington DC, USA.	

	Uieda, L . Machine Learning Lessons for Geophysics, <i>Department of Earth Sciences</i> , <i>University of Hawaiʻi at Mānoa</i> , Honolulu, USA.	₽
	Uieda, L , Wessel, P. Building an object-oriented Python interface for the Generic Mapping Tools, <i>Scipy 2018</i> , Austin, USA.	_ 0
	Uieda, L , Sandwell, DT, Wessel, P. Joint Interpolation of 3-component GPS Velocities Constrained by Elasticity, $AOGS\ 15^{th}\ Annual\ Meeting$, Honolulu, USA.	
	Uieda, L , Wessel, P. Integrating the Generic Mapping Tools with the Scientific Python Ecosystem, $AOGS~15^{th}~Annual~Meeting$, Honolulu, USA.	
2017	$oxed{Uieda, L}$, 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, <i>Scipy 2017</i> , Austin, USA.	
	Uieda, L . Inverting gravity to map the Moho: A new method and the open source software that made it possible, <i>Department of Geology and Geophysics, University of Hawai'i at Mānoa</i> , Honolulu, USA.	₽
2014	Uieda, L , Oliveira Jr, VC, Barbosa, VCF. Using Fatiando a Terra to solve inverse problems in geophysics, <i>Scipy 2014</i> , Austin, USA.	
	Uieda, L , Barbosa, VCF. Gravity inversion in spherical coordinates using tesseroids, <i>EGU General Assembly 2014</i> , Vienna, Austria.	<u>_</u>
2013	Uieda, L , Oliveira Jr, VC, Barbosa, VCF. Modeling the Earth with Fatiando a Terra, <i>Scipy 2013</i> , Austin, USA. doi:10.25080/Majora-8b375195-010.	
	$egin{aligned} \textbf{Uieda, L}, & \textbf{Barbosa, VCF. 3D magnetic inversion by planting anomalous densities}, & AGU \\ \textit{Meeting of the Americas}, & \textbf{Cancun, Mexico.} \end{aligned}$	₽
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, <i>SEG Annual Meeting 2012</i> , Las Vegas, USA. doi:10.1190/segam2012-0525.1.	₽
	Uieda, L , Barbosa, VCF. Use of the "shape-of-anomaly" data misfit in 3D inversion by planting anomalous densities, <i>SEG Annual Meeting 2012</i> , Las Vegas, USA. doi:10.1190/segam2012-0383.1.	₽
	Uieda, L , Barbosa, VCF. Rapid 3D inversion of gravity and gravity gradient data to test geologic hypotheses, <i>International Symposium on Gravity, Geoid and Height Systems</i> , Venice, Italy.	₽
2011	Uieda, L , Barbosa, VCF. Robust 3D gravity gradient inversion by planting anomalous densities, <i>SEG Annual Meeting 2011</i> , San Antonio, USA. doi:10.1190/1.3628201.	—
	Uieda, L , Barbosa, VCF. 3D gravity inversion by planting anomalous densities, <i>Internation Congress of the Brazilian Geophysical Society</i> , Rio de Janeiro, Brazil. doi: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, <i>4th International GOCE User Workshop</i> , 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.	
2010	Uieda, L , Ussami, N, Braitenberg, C. Computation of the gravity gradient tensor due to topographic masses using tesseroids, <i>AGU Meeting of the Americas</i> , Foz do Iguaçu, Brazil.	<u>_</u>
2008	Uieda, L , Ussami, N. Utilização de tesseróides na modelagem de dados de gradiometria gravimétrica, <i>XIII Simpósio de Iniciação Científica do IAG-USP</i> , São Paulo, Brazil.	
2006	Uieda, L , D'Agrella-Filho, MS. Paleomagnetismo e mineralogia magnética dos diques cambrianos de Maravilhas e Prata (PB), <i>XI Simpósio de Iniciação Científica do IAG/USP</i> , 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:

- a Indicates that a publication is open-access
- C 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