Leonardo Uieda

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School of Environmental Sciences
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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

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

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.

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.

2014–2018 QUALITEC/UERJ Grant for training a technician for the Laboratory of Exploration Geophysics - Universidade do Estado do Rio de Janeiro

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**

PUBLICATIONS

PREPRINTS

2021 Soler, SR, **Uieda, L**. Gradient-boosted equivalent sources. *EarthArXiv*. doi:10.31223/X58G7C
- Code: compgeolab/eql-gradient-boosted

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

PEER-REVIEWED

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.
- Code: fatiando/pooch

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
- Code: pinga-lab/tesseroid-variable-density

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.
- 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.
- Code: fatiando/verde

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.
- Preprint: doi.org/10.31223/osf.io/9ba4m
- Code: pinga-lab/paper-moho-inversion-tesseroids

2016 **Uieda, L**, Barbosa, VCF, Braitenberg, C. Tesseroids: forward modeling gravitational fields in spherical coordinates, *Geophysics*, doi:10.1190/geo2015-0204.1.
- Code: pinga-lab/paper-tesseroids

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.

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.
- Code: pinga-lab/Total-magnetization-of-spherical-bodies

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.

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.

Oliveira Jr, VC, Barbosa, VCF, **Uieda, L**. Polynomial equivalent layer, *Geophysics*, doi: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.
- Code: pinga-lab/paper-planting-densities

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.

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.

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.

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.

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*.

Uieda, L, Barbosa, VCF. Robust 3D gravity gradient inversion by planting anomalous densities, *SEG Technical Program Expanded Abstracts*, doi: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.

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.

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, *SEG Technical Program Expanded Abstracts*, 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, *12th International Congress of the Brazilian Geophysical Society*, doi:10.1190/sbgf2011-243.

OPEN DATASETS

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
- Code: compgeolab/australia-gravity-data

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
- Code: pinga-lab/paper-moho-inversion-tesseroids

OPEN-SOURCE SOFTWARE

2017– **PyGMT**
A Python interface for the Generic Mapping Tools
- Role: Creator and core developer
- Code: GenericMappingTools/pygmt
- Website: www.pygmt.org

2017– **The Generic Mapping Tools (GMT)**
A data processing and mapping toolbox for the Earth, Ocean, and Planetary Science
- Role: Core team and community management
- Code: GenericMappingTools/gmt
- Website: www.generic-mapping-tools.org

2010– **Fatiando a Terra**
Python tools for geophysical data processing, forward modeling, and inversion
- Role: Creator, main developer, project leadership
- Code: fatiando
- Website: www.fatiando.org

2009–2016 **Tesseroids**
Forward modeling of gravitational fields in spherical coordinates
- Role: Creator and sole developer
- Code: leouieda/tesseroids
- Website: www.tesseroids.org

TEACHING

UNDERGRADUATE

2020– ENVS101/106: Study Skills and GIS (tutorial)
Leading small group tutorials and a Python programming workshop
University of Liverpool

2020– ENVS398: Global Geophysics and Geodynamics
Teaching lithosphere dynamics (50% of module)
Module coordinator from 2021
University of Liverpool

2020– ENVS258: Environmental Geophysics
Teaching remote sensing, gravimetry, and Python programming (∼50% of module)
University of Liverpool

2019– ENVS363: Geophysical Exploration Techniques (field)
Part of the teaching team for geophysical field methods
University of Liverpool

2019– 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
- Code: mat-esp/about

2014–2016 Geophysics I: Gravity and magnetic methods
Universidade do Estado do Rio de Janeiro
- Code: leouieda/geofisica1

2014–2016 Geophysics II: Exploration Seismology
Universidade do Estado do Rio de Janeiro
- Code: leouieda/geofisica2

2015 Introduction to Geology
Universidade do Estado do Rio de Janeiro

WORKSHOPS & SHORT COURSES

2020 Let's build a geophysical inversion with Python
IRTG-2379 Graduate School: Modern Inverse Problems
RWTH Aachen University (online)
- Code: compgeolab/2020-aachen-inverse-problems

The Generic Mapping Tools for Geodesy
UNAVCO (online)
- Recording: youtube.com/watch?v=EQgxDmCXvj4
- Code: GenericMappingTools/2020-unavco-course

From scattered data to gridded products using Verde
Transform 2020 (online)
- Recording: youtube.com/watch?v=-xZdNdvzm3E
- Code: fatiando/transform2020

2019 Best Practices for Developing and Sustaining Your Open-Source Research Software
AGU Fall Meeting 2019
- Code: agu-ossi/2019-agu-oss

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 and *UNAVCO*
- Recording: youtube.com/watch?v=uPUt4_kd6m8
- Code: GenericMappingTools/2019-unavco-course

Introduction to Python Workshop (Earth Sciences REU program)
Department of Geology and Geophysics, University of Hawai'i at Mānoa
- Code: leouieda/2019-06-reu-python

2018 Best Practices for Modern Open-Source Research Codes
AGU Fall Meeting 2018
- Code: agu-ossi/2018-agu-oss

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
- Code: leouieda/python-hawaii-2017

2016 Python for Geologists (SAGEO)
Faculdade de Geologia, Universidade do Estado do Rio de Janeiro
- Code: leouieda/python-geologia-2016

Python for Earth Scientists (IAG Summer School)
Departamento de Geofísica, Universidade de São Paulo
- Code: leouieda/verao2016

2014 Introduction to Geophysical Inversion
Instituto de Geociências, Universidade de Brasília
- Code: pinga-lab/inversao-unb-2014

2011 Introduction to Geophysical Inversion (IAG Summer School)
Departamento de Geofísica, Universidade de São Paulo
- Code: pinga-lab/inversao-iag-2012

STUDENT SUPERVISION

PhD

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

MASTER'S

2020–2021 Aidan Hernaman
University of Liverpool, UK.

UNDERGRADUATE

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.

PRESENTATIONS

future **Uieda, L**, Soler, SR, Pesce, A. Fatiando a Terra: Open-source tools for geophysics, *Geophysical Society of Houston*, Houston, USA.
- **Invited talk**
- Code: fatiando/2021-gsh

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.
- Code: fatiando/egu2021

2020 **Uieda, L**. Geophysical research powered by open-source, *Christian Albrechts Universität zu Kiel*, Kiel, Germany.
- **Invited talk**
- Slides: www.leouieda.com/2020-07-01-kiel

Uieda, L. Geophysical research powered by open-source, *Departamento de Geofísica, IAG, Universidade de São Paulo*, São Paulo, Brazil.
- **Invited talk**
- Recording: youtube.com/watch?v=VqI8BX1Yg54
- Slides: www.leouieda.com/2020-06-18-usp

Uieda, L. Geophysical research powered by open-source, *Technische Universität Bergakademie Freiberg*, Freiberg, Germany.
- **Invited talk**
- Slides: www.leouieda.com/2020-06-04-freiberg

Uieda, L. Geophysical research powered by open-source, *Geographic Data Science Lab, University of Liverpool*, Liverpool, UK.
- **Invited talk**
- Slides: www.leouieda.com/liverpool-gdsl-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.
- Slides: doi.org/10.6084/m9.figshare.12245372

2019 **Uieda, L**, Wessel, P. PyGMT: Accessing the Generic Mapping Tools from Python, *AGU 2019*, San Francisco, USA.
- Poster: 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.
- Slides: 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.
- Poster: 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.
- Slides: 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.
- Recording: youtube.com/watch?v=6wMtfZXfTRM
- Slides: doi.org/10.6084/m9.figshare.6814052

Uieda, L, Sandwell, DT, Wessel, P. Joint Interpolation of 3-component GPS Velocities Constrained by Elasticity, *AOGS* 15^{th} *Annual Meeting*, Honolulu, USA.
- Slides: doi.org/10.6084/m9.figshare.6387467

Uieda, L, Wessel, P. Integrating the Generic Mapping Tools with the Scientific Python Ecosystem, *AOGS* 15^{th} *Annual Meeting*, Honolulu, USA.
- Poster: doi.org/10.6084/m9.figshare.6399944

2017 **Uieda, L**, Wessel, P. Nurturing reliable and robust open-source scientific software, *AGU Fall Meeting 2017*, New Orleans, USA.
- **Invited talk**
- Recording: youtube.com/watch?v=0GO4ZZ5Ry6M

Uieda, L, Wessel, P. A modern Python interface for the Generic Mapping Tools, *AGU Fall Meeting 2017*, New Orleans, USA.
- Poster: doi.org/10.6084/m9.figshare.5662411

Uieda, L, Wessel, P. Bringing the Generic Mapping Tools to Python, *Scipy 2017*, Austin, USA.
- Recording: youtube.com/watch?v=93M4How7R24
- Slides: doi.org/10.6084/m9.figshare.7635833

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.
- Slides: doi.org/10.6084/m9.figshare.4779766

2016 **Uieda, L**. Fatiando a Terra: construindo uma base para ensino e pesquisa de geofísica, *Observatório Nacional*, Rio de Janeiro, Brazil.
- **Invited talk**
- Slides: doi.org/10.6084/m9.figshare.1381870

2015 **Uieda, L**. Fatiando a Terra: construindo uma base para ensino e pesquisa de geofísica, *Universidade de São Paulo*, São Paulo, Brazil.
- **Invited talk**
- Slides: 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.
- Poster: doi.org/10.6084/m9.figshare.1089987

Uieda, L, Barbosa, VCF. Gravity inversion in spherical coordinates using tesseroids, *EGU General Assembly 2014*, Vienna, Austria.
- Slides: 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.
- Recording: youtube.com/watch?v=Ec38h1oB8cc
- Slides: www.leouieda.com/scipy2013/?theme=night

Uieda, L, Barbosa, VCF. 3D magnetic inversion by planting anomalous densities, *AGU Meeting of the Americas*, Cancun, Mexico.
- Slides: 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:10.1190/segam2012-0525.1.
- Slides: 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:10.1190/segam2012-0383.1.
- Slides: 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.
- Slides: 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:10.1190/1.3628201.
- Slides: 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:10.1190/sbgf2011-179.
- Slides: 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.
- Poster: 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:10.3997/2214-4609.20149567.
- Poster: 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.
- Slides: 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.
- Poster: 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.
- Poster: doi.org/10.6084/m9.figshare.4779769

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.
- Code: pinga-lab/nmo-tutorial

2014 **Uieda, L**, Oliveira Jr, VC, Barbosa, VCF. Geophysical tutorial: Euler deconvolution of potential-field data, *The Leading Edge*, doi:10.1190/tle33040448.1.
- Code: pinga-lab/paper-tle-euler-tutorial

ACADEMIC SERVICE & AFFILIATIONS

EDITOR

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

COMMUNITY SERVICE

2019– EarthArXiv Advisory Council

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

2020– Department committee for web presence (website, social media, etc), University of Liverpool.

2020– Earth Sciences representative at the Early Career Academic (ECA) forum, 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 Student Chapter of the Society of Exploration Geophysicists (SEG) at the 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.

AFFILIATIONS

2020– Royal Astronomical Society

2014– Software Underground

2014– European Geosciences Union

2010– American Geophysical Union

2011–2019 Society of Exploration Geophysicists

LANGUAGES

Portuguese Native

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