Email: Leonardo.Uieda@liverpool.ac.uk | ORCID: 0000-0001-6123-9515 | 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, University of Liverpool, UK
2018 – on	Affiliate Researcher, Department of Earth Sciences, University of Hawaiʻi at Mānoa, USA
2014 – 2018	Assistant Professor, Departamento de Geologia Aplicada, UERJ, Brazil

#### Education

2011 - 2016	PhD in Geophysics, Observatório Nacional, Brazil
2010 – 2011	MSc in Geophysics, Observatório Nacional, Brazil
2004 - 2009	<b>BSc in Geophysics</b> , 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:
	<b>Uieda</b> , L. <i>University of Hawai'i at Mānoa</i> . Award ID: 1948602.

Software Sustainability Institute Fellowship. *University of Liverpool*. More information: software.ac.uk/about/fellows/leonardo-uieda

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*. Award ID: 1829371.

### Open Science

2010 – on	Fatiando a Terra   www.fatiando.org
	Python tools for geophysical data processing, forward modeling, and inversion
2017 – on	PyGMT   www.pygmt.org
	A Python interface for the Generic Mapping Tools
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
2009 – 2016	Tesseroids   tesseroids.leouieda.com
	Forward modeling of gravitational fields in spherical coordinates

### Academic Service

2019 – on	Topic editor, Journal of Open Source Software
2021 – on	${\tt Code\ of\ Conduct\ Working\ Group,} \textit{Software\ Underground}$
2019 – on	Advisory Council, <i>EarthArXiv</i>

### **Current Teaching**

2020 – on	ENVS398: Global Geophysics and Geodynamics, <i>University of Liverpool</i>
2020 – on	ENVS258: Environmental Geophysics, University of Liverpool
2020 – on	ENVS386: Geophysical Data Modelling, University of Liverpool
2020 – on	ENVS101/106: Study Skills and GIS (tutorial), University of Liverpool

2019 - on ENVS363: Geophysical Exploration Techniques (field), University of Liverpool

#### **Student Supervision**

2021 – on India Uppal, PhD, University of Liverpool, UK

2017 – 2022 Santiago R. Soler, PhD, Universidad Nacional de San Juan, Argentina

#### **Recent Invited Talks**

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**, 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.

Uieda, L. Geophysical research powered by open-source, *various locations* (Christian Albrechts Universität zu Kiel / Departamento de Geofísica, Universidade de São Paulo / Technische Universität Bergakademie Freiberg / Geographic Data Science Lab, University of Liverpool).

#### **Publication Highlights**

- Soler, SR, **Uieda**, L. Gradient-boosted equivalent sources. *Geophysical Journal International*. doi:10.1093/gji/ggab297. github.com/compgeolab/eql-gradient-boosted
- 2020 **3 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. **Q** github.com/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.
- 2018 **3 Uieda, L.** Verde: Processing and gridding spatial data using Green's functions. *Journal of Open Source Software*. doi:10.21105/joss.00957. **Q** github.com/fatiando/verde
- Uieda, L, Barbosa, VCF, Braitenberg, C. Tesseroids: forward modeling gravitational fields in spherical coordinates, *Geophysics*, doi:10.1190/geo2015-0204.1.
- 2015 a 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. github.com/pinga-lab/Total-magnetization-of-spherical-bodies
- 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.