Leonardo Uieda

Geophysicist

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@leouieda | linkedin.com/in/uieda
github.com/leouieda | figshare.com

Research interests

- Inverse problems
- Open-source software
- Potential fields
- Numerical modeling

Education

2011–Present **PhD in Geophysics**, *Observatório Nacional*, Rio de Janeiro.
Thesis topic: *Potential field inversion in spherical coordinates*

2010–2011 **MSc in Geophysics**, *Observatório Nacional*, Rio de Janeiro.
Dissertation topic: *3D gravity gradient inversion by planting anomalous densities*

2008–2009 **International Exchange**, *York University*, Toronto, Canada.

2004–2009 **BSc in Geophysics**, *Universidade de São Paulo*, São Paulo.
Dissertation topic: *Use of tesseroids in the modeling of gravity gradiometry data*

Open-source software

Fatiando a Terra.
Python toolkit for geophysical modeling and inversion
Website: `http://fatiando.org`
Language: Python
License: BSD

Tesseroids.
Forward modeling of gravitational fields in spherical coordinates
Website: `http://leouieda.github.com/tesseroids`
Language: C
License: BSD

Languages

Fluent **Portuguese** *Native*
Fluent **English** *TOEFL score: 115/120 (received 10/2007)*
Basic **Spanish**

Publications

See `http://fatiando.org/people/uieda` for a full list and access to PDFs.

Uieda, L., and V. C. F. Barbosa, 2012, Robust 3D gravity gradient inversion by planting anomalous densities: Geophysics, 77, G55–G66, doi:10.1190/geo2011-0388.1.

Oliveira Jr., V. C., V. C. F. Barbosa, and L. Uieda, 2012, Polynomial equivalent layer: Geophysics, 78, G1–G13, doi:10.1190/geo2012-0196.1.

Uieda, L., and V. C. F. Barbosa, 2012, Use of the "shape-of-anomaly" data misfit in 3D inversion by planting anomalous densities: SEG Technical Program Expanded Abstracts, 1–6, doi:10.1190/segam2012-0383.1.

Uieda, L., E. P. Bomfim, C. Braitenberg, and E. Molina, 2011, Optimal forward calculation method of the Marussi tensor due to a geologic structure at GOCE height: Proc. of "4th International GOCE User Workshop", 1–5.