



Alessandro Ghirotto

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Education and training

2016

BSc degree in Geological Sciences

Deep electromagnetic sounding in the continental rift of Tendaho Afar -
110/110

University of Genova - Genova - IT

2018

MSc degree in Geological Sciences

Geothermal conceptual model of the Luhoi field (Tanzania) from
magnetotelluric and gravimetric data modelling - 110/110 cum laude

University of Genova - Genova - IT

Academic experience

2019 - ONGOING

PhD student in Earth Sciences - Geophysics

University of Genova - Genova - IT

Development and implementation of specific Inverse Modeling algorithms
(in particular Bayesian Monte Carlo methods) applied to potential fields
geophysical data (gravimetric and magnetic datasets)

Work experience

2019

Traineeship

University of Genova - British Antarctic Survey - Genova (IT) - Cambridge -
GB

Foreign internship with scholarship at the British Antarctic Survey research
institute of Cambridge (UK) under the supervision of the head of the
Geology and Geophysics sections Dr. Fausto Ferraccioli as part of the 'Porta
la laurea in azienda' project promoted by the University of Genoa. The
internship aimed at improving my skills about the techniques of processing
and modelling of gravimetric and magnetic data in addition to the geo-
referencing of topographic data and geological tectonic structures.

Language skills

Italian

Mother tongue

English

Independent

Research interests

My research interests revolve around the exiting fields of Applied Geophysics.

In particular, my PhD research project focuses on two main geophysical fields, namely:

- i) geophysical signals processing, enhancement and interpretation for geological-geophysical studies and geothermal explorations;
- ii) development and implementation of specific Inverse Modeling algorithms (Bayesian Monte Carlo methods) applied to Potential Fields dataset.