

Artur Benevides

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Languages

German

English

Portuguese

Programming

Python

FORTRAN

Interests

Numerical Modeling

Inversion

Geology

Programming

Geophysics

EDUCATION

- 2019 — PhD in Geophysics
2023 [National Observatory, ON-MCTIC \(RJ, Brazil\)](#)
Research project: Evaluation of methodologies for joint and cooperative geophysical data inversion (Grantee of Shell)
Advisor: Sergio Fontes
- 2017 — Master of Science in Geophysics
2019 [National Observatory, ON-MCTIC \(RJ, Brazil\)](#)
Research project: 3D Magnetotelluric Imaging in the Iguatu Basin NE Brazil (Grantee of CNPq)
Advisor: Sergio Fontes
- 2012 — Bachelor's Degree in Geophysics
2016 [Federal University of Bahia - UFBA \(BA, Brazil\)](#)
Title: Inversion of BHT for Determining Geothermal Gradient (Grantee of FAPESB)
Advisor: Amin Bassrei

EXPERIENCE

- 2014 — Internship
2017 [Laboratory of Petroleum Exploration | LAGEP - UFBA](#)
Scientific initiation scholarship, 20h (weekly), Grantee of CNPq
- 2016 — Physics teacher
2016 [CPM - Dendezeiros, Salvador \(BA, Brazil\)](#)
Internship as substitute teacher in high school
- 2007 — Internship
2008 [State University of Southwest Bahia, Jequié \(BA, Brazil\)](#)
Collaborating in the audiovisual sector

PROJECTS - ONGOING

3D modeling and inversion of MT and CSEM data: It is proposed to deploy a workflow to integrate multi-physics data into 3D code to joint inversion CSEM, MT and seismic data. The goal is to help unravel complex geological structures, as observed in the subsalt regions of sedimentary basins in hydrocarbon exploration.

Vassouras Magnetic Observatory (VSS): evaluation of the historial serie (1914-2014) and the possible occurrences of Geomagnetism Jerks using data from VSS

BIBLIOGRAPHICAL PRODUCTION

Magnetotelluric Imaging of the Iguatu Basin NE Brazil: From Shallow Aquifers to Mid-Crustal Conductors. Paper submitted in 2019 (in revision), Journal of South American Earth Science. Benevides, A. S. & Fontes, S.L. & La Terra, E. F.

Inversion of Bottom Hole Temperatures for Gradient Determination by the Damped Least Squares Method for Noise Attenuation. Paper submitted in 2018 (accepted), Brazilian Journal of Geophysics). Benevides A. S. & Bassrei, A.

Benevides, A. S., Fontes S. L., La Terra, E.F., 2018. Contributions of Geoelectric Imaging to Understanding the Tectonic-Sedimentary Evolution of the Iguatu Basin, NE Brazil. In: 49° Brazilian Geology Congress, Rio de Janeiro, in proceedings of the congress.

Benevides, A. S., Fontes S. L., 2018. Tri-dimesnsional Magnetotelluric Imaging of the Iguatu Basin in Northeast Brazil. Eletromagnetic Induction Workshop. (Helsingör - Den). Poster

Benevides, A., Camacho E., Silveira V., Melhorato R., Rodrigo I. & Pinheiro K., 2017. One Century of data from Vassouras Magnetic Observatory (1915-2015). II PANGEO (Vassouras - RJ) Poster.

Benevides, A., Bassrei, A., 2016. BHT Inversion for Gradient Determination: Apli-cation to the Pineview (Utah, EUA) Data. In: Brazilian geophysics symposium. (Ouro Preto - MG), Poster

Benevides, A., 2016. Processing and application of Bottom-Hole Tempreature (BHT) Data. I Week of Non-seismics Methods. (Salvador - BA). Talk presenta-tion

OTHER RELEVANT INFORMATION

Awards

Shell Brazil Petroleum Ltda. (SHELL), PhD Research Scholarship (2019-2023).

The National Council for Scientific and Technological Development (CNPq), agency of the Ministry of Science, Technology, Innovations and Communications (MCTIC), Masters Research Scholarship (2017-2019).

Student Chapter winner of the 1st in World Geoquiz Online, competition held by EAGE, involving 29 institutions around the world (2016).

Bahia Research Foundation (FAPESB) Undergraduate Research Scholarship (2016-2017).

The National Council for Scientific and Technological Development (CNPq), agency of the Ministry of Science, Technology, Innovations and Communications (MCTIC), Undergraduate Research Scholarship (2014-2016).

Event organization

Organizing committee of the V, VI and VII week of geophysics - UFBA

UFBA Student Chapter - EAGE, member in 2016

Affiliations

Brazilian Geophysical Society, member since 2012

European Association of Geoscientists & Engineers, member since 2015

Brazilian Geological Society, member since 2018

Additional Infos:

cv lattex: <http://lattes.cnpq.br/7097271152547438>

All the bibliographical production and other projects are available in my GitHub profile linked above