

# 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 (2014-2016).

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