

Raimundo Oscar de Sousa Jr.

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Residence in: Santarém, Pará, Brasil * *Year of birth:* 1994

Education

Master's in Geophysics

Graduate Program in Geophysics

Project: Interpretation of magnetic data on oceanic crust at low latitudes.

National Observatory

2020 - 2023

Bachelor's in Geophysics

Institute of Engineering and Geosciences

Project: Crustal structure of the southeastern portion of the Amazonian Craton: joint inversion of receiver function (RF) and dispersion of surface waves (DSW).

Federal University of Western Pará

2017 - 2019

Bachelor's in Earth Sciences

Institute of Engineering and Geosciences

Project: Utilization of binary segmentation for improved interpretation of physical properties of a well geophysical profile in a hydrocarbon zone.

Federal University of Western Pará

2013 - 2017

Work Experience

Volunteer Teacher

EMACIPA Project

- Voluntary physics teacher for the EMACIPA project, which aimed to assist and prepare students from public schools for the ENEM (Brazilian National High School Exam)

2016

Santarém - Pará

Private Tutor

Self-Employed

- Private tutor in physics and mathematics for elementary and high school students.

2019

Santarém - Pará

Administrative Director

Prospecta Jr.

- Serving as the Administrative Director at the Geophysics Junior Company of the Federal University of Western Pará, I had the opportunity to enhance my leadership and teamwork skills.

2017-2018

Santarém -Pará

Geophysicist

Freelancer

- Freelance and self-employed geophysicist, specializing in data processing, analysis, and interpretation, with a focus on potential field data.

*2020 - ***

Santarém -Pará

Extracurricular Activities

Automobile Mechanic Course

SENAI

The Automobile Mechanic course aims to provide professional qualification in the maintenance of light vehicle mechanical and electro-electronic systems, following technical standards, quality, environmental, health, and safety guidelines at work.

2013

Santarém-Pará

Python Course

Souk Analytics

2022

Online

Comprehensive course on the Python programming language, introducing fundamental and advanced concepts.

Essential Programming Logic

2022

DIO

Online

Programming logic is the way a developer understands communication to program a function. It uses algorithms, which are well-established sequences of steps, such as a recipe.

Introduction to Git and GitHub

2022

DIO

Online

In this course, I learned about the history of Git and how it became essential for optimizing developer projects. I also became familiar with its main commands, how the platform works, and how it can simplify your work.

Ground Penetrating Radar (GPR) Data Acquisition, Processing, and Modeling Course

2017

UFOPA

Santarém-Pará

Designed to provide participants with knowledge and skills to work with Ground Penetrating Radar (GPR) data. During the course, students will be introduced to the fundamental principles of GPR data acquisition, signal processing, and subsurface modeling.

Seismological Station Handling Course

2018

UFOPA

Santarém-Pará

Participants will be introduced to the fundamental principles of seismology, learn about seismic instrumentation, and acquire the skills needed to operate and handle a seismological station.

Predictive Geophysics for Dams and Piles Course

2023

SINGEO-MG / CREA-MG

Online

This course aims to provide participants with the knowledge and tools necessary to apply geophysical methods in the evaluation and monitoring of containment structures for waste materials.

Python for Geology & Geoscience Course

2023

Petroleum Engineers Association - PEA

Online

The goal of this course is to equip participants with essential knowledge and tools for applying the Python programming language in geological and geophysical studies.

Publications

Utilization of binary segmentation for improved interpretation of physical properties of a well geophysical profile in a hydrocarbon zone

(2017)

Abstract

Society of Exploration Geophysicists

Raimundo Oscar de Sousa Júnior (UFOPA), Cauã da Silva Chagas dos Santos (UFOPA), Beatriz da Gama Silva (IEG, UFOPA), Aldenize Ruela Xavier (UFOPA) e Aumir da Silva Viana (UFOPA), DOI: 10.1190/sbgf2017-233

Lithostratigraphic correlation between Pleistocene deposits in the Brazos-Trinity region, Gulf of Mexico

(2020)

Journal Article

Brazilian Journals of Development

AL Alves, RO de Sousa Júnior, CSC dos Santos, AR Xavier, DOI:10.34117/bjdv6n3-054

Crustal structure of the southeastern portion of the Amazonian Craton and the northern portion of the Araguaia Belt by joint inversion of receiver function (RF) and dispersion of surface waves (DOS)

(2018)

Conference Paper

Simpósio Brasileiro de Geofísica

R. Júnior, C. R. D. Trindade, J. E. Soares, DOI: 10.22564/8simbgf2018.115

Interactive methods for solving nonlinear systems and their basins of attraction

(2018)

Abstract

Essentia Editora

Santos, C. S. C ; GOES, J. F. ; SOUSA JUNIOR, R. O

Digital Image Processing and Analysis (PADI): grain/non-grain quantification and porosity estimation from thin section images (2017)

Abstract

Society of Exploration Geophysicists

Viana, A.S ; SOUSA JUNIOR, R. O. ; Santos, C. S. C ; MENDES, A. C, DOI:10.1190/sbgf2017-179

Temporal Hydrogeological Mapping of the Alter do Chão Formation using Vertical Electrical Sounding and Electrical Profiling on the UFOPA Tapajós Campus (2018)

Conference Paper

Simpósio Brasileiro de Geofísica

Souza L. G., Barros A. C. S. P. C., Sousa Junior R. O., Rufino, C. S., Silva H. T. A., Siqueira Neto, A.C.

Information Technology Skills

Programming Languages	Python, Julia L ^A T _E X, SQL, MatLab
Office/Design Tools	Excel, Word, PowerPoint, Canva, Figma
Geoprocessing	QGis, ArcGis, Google Earth
Data Visualization	Plotly, Pyvista, Matplotlib, Boker, Seaborn, PowerBI

Professional Skills

Geoelectrical Surveys (SEV, CE, GPR)	Resistivity Meter- Super Sting, GPR-GSSI
Magnetic Surveys	Magnetometer: G-857
Gravimetric Surveys	Gravimeter: Scintrex
Processing/Interpretation of Geophysical Well Profiles	Python e MatLab
Processing/Interpretation of Seismic/Seismological Data	Python, Seismic Unix
Creation of Thematic Maps (Geophysical/Geological)	QGIS, ARCGIS, OASIS MONTAJ, Python
Topographic Surveys	Using Total Stations and Theodolites
Field Practices in Geology and Geophysics	GPS,Precision Compass

Interpersonal Skills and Strengths

Creativity	Curiosity	Flexibility	Self-Confidence	Planning and Organizational Skills	Autonomy
Adaptability	Problem-Solving	Attention to Detail	Teamwork	Eagerness to Learn New Skills	
Good Communication	Information Management	Diplomacy	Active Listening	Patience	

Language Proficiency

English	Advanced - Proficient in grammar and vocabulary, able to discuss specific topics.
Portuguese (Brazilian)	Native