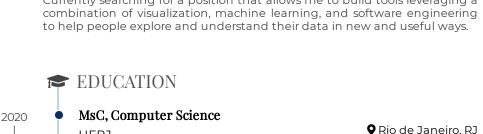
MARCELO ALBUQUERQUE

I am a petrophysicist with a unique combination of skills in applied machine learning, statistics and reservoir engineering. I am passionate about analyzing and extracting value from data, using exploration and visualization tools and deploying solutions for business problems.

Currently searching for a position that allows me to build tools leveraging a



· Master Thesis: Prediction of Petrophysical Properties Using Machine Learning and Hierarchical Multi-Task Linear Models

B.S., Electronics Engineering 2008 2003

São José dos Campos, SP

· Diploma Thesis: Applications of Time-Domain Back-Projection SAR Processing in the Airborne Case



Present 2018

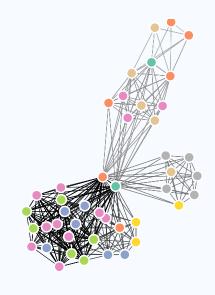
2018

Data Scientist

Petrobras Research Center

• Rio de Janeiro, RJ

- · Develop Machine Learning models to predict Petrophysical **Properties**
- · Build REST APIs and python/R packages to access and explore petrophysical data
- · Enhance data storage and image processing workflows for microtomographic images
- · Design petrophysical data visualization tools and web apps
- · Develop reservoir simulation python packages to deploy and update petrophysical models using history matching bayesian methods



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CONTACT

- marceloralbuquerque@gmail.com
- github.com/mralbu
- nralbu.github.io
- in linkedin.com/in/mralbu

LANGUAGE SKILLS

Python	
"R	
SQL	
Julia	
Bash	
C++	
Javascript	

Made with the R package pagedown.

Last updated on 2020-09-11.

Present 2015

Petrophysicist

Petrobras Research Center

• Rio de Janeiro, RJ

- · Coordinate the execution of Routine and Special Core Analysis (SCAL) data gathering for pre-salt and other strategic fields of Petrobras
- · Analyze SCAL experimental data and provide meaningful petrophysical rock parameters for reservoir simulation
- · Simulate and research observed physical phenomena and improve data acquisition methods
- · Lead and support lab technicians and maintain Rock Compressibility laboratory equipment

2015 2010

Reservoir Engineer

Petrobras

Aracajú, SE

- · Reservoir Engineer at the Sergipe-Alagoas Business unit (UO-SEAL)
- · Management of mature oil and gas fields in the Sergipe Alagoas basin
- · Oil Field Production and Reserves forecasting with analytical and numerical simulation tools (CMG Software Suite)

2010 2009

Petroleum Engineer

Petrobras

Salvador, BA

· Petroleum Engineering in-company specialization at Petrobras University

2008 2008

Engineering Intern

Orbisat

São José dos Campos, SP

- · Developed a point-target simulator for a ground-based weather
- · using Synthetic Aperture Radar concepts
- · Supported the software development team evaluating and implementing radar signal processing algorithms in IDL



RESEARCH EXPERIENCE

2007 2007

Diplomand Researcher

Munich, DE Deutsches Zentrum für Luft und Raumfahrt (DLR)

- · Implemented a Synthetic Aperture Radar (SAR) processor in IDL and C/pthreads
- · Investigated and developed applications of time-domain SAR processing: direct-geocoding and processing of curvilinear acquisition trajectories
- · Researched a novel SAR acquisition geometry, Circular SAR



2018 | 2018 Estimation of Capillary Pressure Curves from Centrifuge Measurementes Using Inverse Methods

Rio Oil & Gas

· Authored with Felipe M. Eler, Heitor V.R. Carmargo, André L.M. Compan, Dario A. Cruz and Carlos E. Pedreira.

2008 | 2008 Applications of Time-Domain Back-Projection SAR Processing in the Airborne Case

European Conference on Synthetic Aperture Radar

· Authored with Pau Prats and Rolf Scheiber