

ALEX SANDRO ALVES DE ARAUJO

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EDUCATION

São Paulo University USP, São Paulo, Brazil

Jun 2017 - Current Position

Degree: Ph.D. in Physics

Subjects: Time series, statistics, machine learning, large and diverse data sets

Research title: Biosphere-atmosphere interactions in South America (CNPq scholarship)

São Paulo University USP, São Paulo, Brazil

Feb 2015 - May 2017

Degree: M.S. in Physics

Subjects: Experimental data analysis and implementation of process-based models

Research title: Urban pollution effects on aerosols hygroscopicity and warm clouds droplets activation in Amazon in context of the GoAmazon 2014/5 experiment (FAPESP scholarship)

São Paulo University USP, São Paulo, Brazil

Feb 2011 - Dec 2014

Degree: B.S. in Physics

Subjects: Image analysis and classification models

Research title: Building a low cost sky imager (CNPq and Capes scholarships)

PROFESSIONAL EXPERIENCE

Experian Datalab / Experian AgriBusiness Unit

São Paulo, São Paulo, Brazil

Apr 2021 - Current Position

Senior Data Scientist / Tech Lead

- Remote sensing for agribusiness.

Saires Capital

São Paulo, São Paulo, Brazil

Mar 2018 - Jan 2020

Quantitative analyst

- Applied complex networks and information theory to build algorithms for trading in Brazilian stock market.
- Analysed large volumes of historical time series data in order to test deep learning models and other trading strategies.

SPECIALIZATIONS

Coursera

· TensorFlow in Practice

Apr 2020

· Deep Learning

May 2019

TECHNICAL STRENGTHS

Subjects

Time Series, Statistics, Machine Learning, Deep Learning

Programming Languages

Python, Matlab

Python Packages

Pandas, Scikit-Learn, Tensorflow, LightGBM, Shap

Operational Systems

Linux, Bash Unix Shell, Docker

Geospatial Tools

QGIS, Google Earth Engine

Versioning Tools

Git, Github, Bitbucket

IDEs and Typesetting

VIM, Emacs, VSCode, Latex

Databases

SQL, PostgreSQL

LANGUAGES

Portuguese (Fluent), English (Advanced)