

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

Saires Capital, 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, C, C++

Python Packages

Numpy, Pandas, Matplotlib, Dask, Keras, Scikit-Learn, XGBoost

Operational Systems

Linux, Bash Unix Shell

Versioning Tools

Git, Github

IDEs and Typesetting

Emacs, VSCode, Latex

Web

HTML, CSS, Javascript, Django

Databases

SQL, PostgreSQL

LANGUAGES

Portuguese (Fluent), English (Advanced)