

# ALEX SANDRO ALVES DE ARAUJO

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## EDUCATION

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**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

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**Serasa Experian DataLab, São Paulo, São Paulo, Brazil**

*Apr 2021 - Current Position*

Data Scientist

- Agricultural credit granting.

**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

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**Coursera**

· TensorFlow in Practice

*Apr 2020*

· Deep Learning

*May 2019*

## TECHNICAL STRENGTHS

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**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

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Portuguese (Fluent), English (Advanced)