

Education

P.hD. in Physics

Federal University of ABC – UFABC
2020 – Present

M.Sc. in Physics

São Paulo State University – UNESP
2017 – 2020

B.Sc. in Physics

São Paulo State University – UNESP
2011 – 2016

Skills & Tools

Data Science

- NLP
 - Text Classification
 - Topic Modelling
- Machine Learning
 - Classification
 - Regression
 - Clustering
 - Outlier Detection
 - Deep Learning
- Time Series
- OCR

Python Libraries

- Pandas, Numpy, SciPy
- Matplotlib & Seaborn
- Sklearn
- Transformers, Gensim, SpaCy, NLTK
- PyTorch
- Statsmodels

Programming

- Python, SQL, R
- LaTeX, Markdown, Mathematica.

Tools

- AWS: Sagemaker, Athena, QuickSight, Glue, S3, Textract
- Databricks, Spark, Git, RStudio
- PyCharm, VSCode

Languages

Portuguese: Native

English: Fluent

Norwegian: Beginner

Richard Costa

Data Scientist | Physicist

📍 Santo André, São Paulo, Brazil

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Work Experience

Data Scientist

2021 – Present

Dom Rock | São José dos Campos, São, Paulo, Brazil

Most of my work concerns natural language processing tasks, implementation of regression & classification algorithms, and exploratory data analysis & data preprocessing. This includes several other tasks like feature engineering & extraction, data visualization, data augmentation, statistical analysis, and so on. I've also had experience with clustering algorithms, outlier detection, product recommendation and optical character recognition.

Freelance Writer & Translator

2018 – 2020

Self-Employed

Content writing on Science, Machine Learning and Entertainment. Copy-writing. Translation from Portuguese-English and English-Portuguese.

Post-grad Research Fellow

2017 – 2018

CAPES | Guaratinguetá, São Paulo, Brazil

Scientific research in the field of Theoretical Particle Physics which resulted in a published paper. Work funded by the Coordination of Superior Level Staff Improvement (CAPES).

Undergraduate Research Fellow

2015 – 2016

CNPQ | Guaratinguetá, São Paulo, Brazil

Scientific research in the field of Theoretical & Mathematical Physics. Work funded by the National Council for Scientific and Technological Development (CNPQ).

Publications & Awards

Papers

Pereira, S.H. and Costa, R.S., 2019. Partition function for a mass dimension one fermionic field and the dark matter halo of galaxies. Modern Physics Letters A, 34(16), p.1950126. [doi:10.1142/s0217732319501268](https://doi.org/10.1142/s0217732319501268).

Awards

3rd Place, UNESP's Undergraduate Scientific Research Congress., Guaratingueta campus.