



André Guerra

Data Scientist/Computational Biologist

A data-loving biotechnologist.

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WORK EXPERIENCE

COMPUTATIONAL BIOLOGIST

Amyris

03/2019 - 02/2020

Porto, Portugal

Achievements/Tasks

- Development of CRISPR gene validation microservice (Kotlin / Docker / Kubernetes).
- Back-end / database model development for strain engineering (Hibernate / No-SQL / GraphQL).
- Implementation of production-ready infrastructure in a continuous integration environment (Gitlab / AWS EKS).

Contact: Pedro Costa - pcosta@amyris.com

EARLY STAGE RESEARCHER

School of Engineering, Newcastle University

09/2015 - 09/2018

Newcastle upon Tyne, UK

Marie Skłodowska-Curie Actions Scholarship

Achievements/Tasks

- Data acquisition and processing using IoT protocols for accelerated ETL streams (OPCUA / Hadoop).
- Multivariate data analysis of time-series CHO cells cultivation data (Python / R / Caret).
- Applied predictive modelling using ensemble models for black-box soft-sensor development and optimisation.
- Deep learning on histopathological tissue samples in order to predict adverse reactions.

EDUCATION

Ph.D. Student in Chemical Engineering

School of Engineering, Newcastle University

09/2015 - 09/2018

Newcastle upon Tyne, UK

Courses

- Exploiting integrated rapid bioprocess monitoring methods for acceleration of process development

M.Sc. in Biotechnology

FCT - UNL

09/2014 - 09/2015

Lisbon, Portugal

Courses

- Genome-scale metabolic network reconstruction of Polaromonas JS666 strain for analyzing cDCE degradation rates and bioremediation improvement

SKILLS

Data Engineering



Machine Learning



Software Engineering



Back-end Developer



Data Analyst



QA / DevOps



Front-end Developer



LANGUAGES

English



Portuguese



Spanish



French



INTERESTS

Dystopian Books

Aquariofilia

Scifi Shows

Motorcycles

Art Deco

Russian Language