



# André Guerra

Data Scientist/Computacional Biologist

A data-loving biotechnologist.

✉ andrecatarinoguerra@protonmail.com

📍 Lisbon, Portugal

in linkedin.com/in/andguerra

📞 +351 911 022 270

🌐 andre-guerra.info

## 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](mailto: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. 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 *Pseudomonas 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