MARIO BURBANO

Cloud Data Engineer and Analyst

Date of birth **14 November 1984** Marital status **In cohabitation**

burbanom

in hurbanom



PhD in Computational Chemistry with extensive experience in cloud computing, task automation and data analysis. I am passionate about the implementation of data pipelines and how they can facilitate the process of data-driven decision-making.

PROFESSIONAL EXPERIENCE

Data Engineer

Devoteam/Ysance

2021 - Ongoing

♀ Île de France, France

• L'Oréal As part of one of the IT/BI teams within the R&D department, I participated in a project whose aim was to migrate the existing data pipelines from a Talend/Hadoop environement towards an Airflow/GCP solution.

Data Engineer/Scientist and instructor Lincoln/Alten

2019 - 2020

♀ Île de France, France

- Malakoff Humanis As part of the team in charge of the data infrastructure, I
 developed a series of scipts aimed at analyzing the data required for the successful migration of the company's machine learning projects developed on
 Dataiku DSS. These models relied on data hosted on-premise which was to be
 moved to the AWS cloud.
- Orange I integrated the General Public Marketing team in order to migrate the existing SAS datamarts to Dataiku DSS. I also provided several teams with training for this new tool.

Data Engineer/Analyst

Altran

2018 - 2019

♀ Île de France, France

• Essilor As a member of the team tasked with implementing and maintaining the software used internally for optical calculations, I participated in the push towards the creation of a data infrastructure on the cloud AWS. The aim was to be able to exploit the data by making it available to the data science and R&D teams. I also contributed to the team by automating the analysis of regression tests by developing a series of pyhon scripts which accelerated the team's ability to respond to software bugs.

Research Engineer

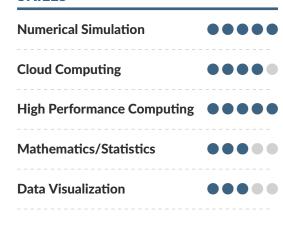
CEA

2016 - 2018

Saclay, France

- Refactoring and modularisation of an electrochemistry simulation program used to carry out Molecular Dynamics simulations of *supercapacitors* at constant potential.
- Implemented a new method for solving electrostatic equations, which was then made available as a stand-alone library.

SKILLS



Computer science





Cloud Services

| BigQuery | Airflow | PubS | ub |
|----------|------------|------|--------|
| AWS EC2 | AWS Lambda | | Athena |

LANGUAGES

- Spanish Native language
- English Native level
- French Advanced level

EDUCATION

Ph.D. in Computational Chemistry

B.A. in Computational Chemistry

2004 - 2009

▼ Trinity College Dublin

PROFESSIONAL EXPERIENCE - CONT.

Postdoctoral researcher **UPMC**

2014 - 2016

Paris, France

- Developed models to study correlated motion in battery components.
- Established procedures to generate/analyse large quantities of data used to explain materials' properties.

Ph.D. in Computational Chemistry **Trinity College Dublin**

2009 - 2013

Oublin, Ireland

Computer modelling of metal oxides

- Carried out molecular simulations of materials for energy production and storage
- Used theoretical predictions to dispell misconceptions regarding the roles of impurities and morphology as possible enhancers of desired qualities in materials used to generate energy.
- Used Fortran/MPI to write simulation and data analysis programs

12 peer-reviewed articles, h-index 11, 577 citations

HOBBIES

Hiking

Cycling

Canine activities