MARIO BURBANO

Cloud Data Engineer and Analyst

Date of birth **14 November 1984** Nationality **Irish/Colombian** **Antony, FRANCE**
Marital status **In cohabitation** @ **burbanom@tcd.ie** **+ 33 6 43 27 79 22** **github.com/burbanom**
in **linkedin.com/in/burbanom/**

PhD in Computational Chemistry with extensive experience in cloud computing, task automation and data analysis. I am passionate about developements in the fi eld of data-driven decision-making. My training as a physical scientist bestows upon me the capability of understanding complex ideas, while being able to express them to a general audience.

EXPERIENCE

Data Engineer
L'Oréal for Devoteam/Ysance
2021 – Ongoing — Clichy, France
- TOCOMPLETE

Data Engineer
Malakoff Humanis for Lincoln
2020 – 2020 — Malakoff, France
- TOCOMPLETE

Data Engineer/Scientist
Orange for Lincoln
2019 – 2020 — Arcueil, France
- TOCOMPLETE

Data Engineer/Scientist
Essilor for Altran
2018 – 2019 — Créteil, France
- TOCOMPLETE

Research Engineer
CEA
2016 – 2018 — Saclay, France
- TOCOMPLETE

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 — Dublin, Ireland

Computer modelling of metal oxides

SKILLS

High Performance Computing ●●●●●
Cloud Computing ●●●●○
Molecular Modelling ●●●●●
Mathematics / Statistics ●●●○○
Data Visualization ●●●○○

Computer science

Python ●●●●●
SQL ●●●●○
Linux/Unix/Bash ●●●●○
Machine Learning ●●●○○
git ●●●○○
Docker ●●○○○

AWS · GCP · Dataiku DSS · SAS · Talend · pandas · Plotly/Dash · scikit-learn · Flask · Visual Studio Code · Embedded Systems · Statistical Analysis · Fortran · LaTeX · Parallel computing

Cloud Services

BigQuery · Airflow · PubSub · AWS EC2 · AWS Lambda

LANGUAGES

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

EDUCATION

Ph.D. in Computational Chemistry
2009 – 2014 — Trinity College Dublin

B.A. in Computational Chemistry
2004 – 2009 — Trinity College Dublin

- 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 simulations and data analysis programs

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