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 field 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

TOCOMPLETE

TOCOMPLETE

📅 2021 – Ongoing   📍 Paris, 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

- 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

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