MARIO BURBANO

Cloud Data Engineer and Scientist

14 November 1984 - In cohabitation

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Nationality Irish/Colombian

github.com/burbanom



PhD in Computational Chemistry with extensive experience in cloud computing, task automation and data analysis.

EXPERIENCE

Associate Professor

University of Pau & Pays Adour

2010 - Ongoing

Pau, France

- Develop multi-scale computational strategies adapted to complex systems
- Develop and distribute data analyses libraries with Python
- Supervise research projects with Ph.D. and Master students
- Train UPPA users to HPC and programming languages using active learning

Research Engineer

CEA DAM

2009 - 2010

Pruyères le châtel, France

- Used C and MPI to include Dissipative Particle Dynamics algorithms in a massively parallel program
- Parametrization of coarse grain models for molecular simulations

Ph.D. in Computational Chemistry

Trinity College Dublin

2009 - 2014

Oublin, Ireland

Computer modelling of metal oxides

- Carried out molecular simulations of materials energy production and storage
- Used Fortran/MPI to write simulations and data analysis programs

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

SKILLS

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Computer science

Python			
SQL			
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Linux/Ur	nix/Bas	sh	
Machine	Learni	ng	
git			
Docker			
Fortran			



Cloud Services

BigQuery	Airflow	PubSub
AWS EC2	AWS Lambda	

LANGUAGES

English	••••
Spanish	••••
French	••••

EDUCATION

Ph.D. in Computational Chemistry

2009 - 2014

♀ Trinity College Dublin

B.A. in Computational Chemistry

2004 - 2009

▼ Trinity College Dublin