This resume was generated entirely in Python. Code available in GitHub repository.

PABLO SÁNCHEZ-PALENCIA

Materials & Data Science Researcher

DETAILS

PHONE

+34 ########

EMAIL

##########@######.com

PROFESSIONAL ID

Google Scholar
ORCID
GitHub
Linkedin
Twitter

SKILLS

PROGRAMMING

Python
Matlab
Bash
VBA
Fortran

MATERIALS MODELLING

VASP
Quantum Espresso
Siesta

OTHERS

Microsoft Office
Linux OS
Git and Version Control

LANGUAGES

Spanish
English

PROFILE

Computational material scientist with a marked interest in the field of clean and renewable energies, specially in photovoltaic energy. Pursuing to build a complete and multi-use set of technical skills upon my knowledge on the field, that enables me to do my small part in the transition to a sustainable future. My field of research is focused on materials modelling through first principles, mainly with density functional theory, and also in the implementation of machine learning and other approaches based on data science.

Among my academic merits, I've participated in 3 different funded projects as a member of the Grupo de Cálculos Cuánticos (GCC), leaded by Perla Wahnón first, and then by Pablo Palacios. I've published 6 peer-reviewed articles, all but one of them in scientific journals of high impact factor (Q1). I've also presented my work in 20 conferences and workshops, most of them international like Psi-k conference, E-MRS and MRS meetings, both in poster format and as oral contributions.

EXPERIENCE

Assistant Professor, Universidad Politécnica de Madrid
09/2019 - Present
- 60 h/yearly of teaching in chemistry and computational material science courses.
- Continuation of my research duties as member of the GCC.
- Research focus slightly shifted towards perovskite materials.

Project Researcher, Universidad Politécnica de Madrid
09/2018 - 08/2019
- Member of the research team for a national project granted to GCC.
- Computational characterization of new intermediate band materials.

Internship at the Risk Management Department, Viesgo Energía
11/2016 - 04/2017
- Data management for the correct planification of economic strategy.
- Generation of financial status reports and support for the hedge operations.
- Migration of data and implementation of the new operations database in Allegro.

EDUCATION

Ph.D. in Photovoltaic Solar Energy, Universidad Politécnica de Madrid
2019 - 2023
- 4 months fully funded research stay at University of Reading

M.Sc. in Photovoltaic Solar Energy, Universidad Politécnica de Madrid
2017 - 2018
- Best student of promotion.

B.Sc. in Energy Engineering, Universidad Politécnica de Madrid
2012 - 2017

Specialization courses:
- Applied Machine Learning in Python, University of Michigan
- Mathematics for Machine Learning, Imperial College of London