Dr. José M. Pizarro

PhD in Physics

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PROFILE

I am Ph.D. in Physics with expertise in Computational Methods applied to Materials Science.

I have extensive experience in Software Development and Data Science. My programming skills include:

- High proficiency in Python, C, C++, Fortran, Linux, Git.
- Basic knowledge of JavaScript, React, HTML, CSS, Elasticsearch, MongoDB, and ReSTful API.
- I am currently learning ML methods, particularly Pytorch and TensorFlow.

I worked as a Postdoctoral Researcher and Software Developer for more than 5 years. I have had the opportunity to mentor others and work with collaborators from around the world, which has given me valuable experience.

S LANGUAGES

Spanish
Native

English
High proficiency (C1)

Turkish
Elementary proficiency (A2-B1)

Basic knowledge (A1-A2)

PROFESSIONAL EXPERIENCE

08.2022 – present
Berlin, Germany

Software Developer and Data Management at the
Consortium FAIRmat
Humboldt University of Berlin

Domain expert in the consortium FAIRmat.

11.2021 – 08.2022 **Postdoctoral Research Associate**Hamburg, Germany Max Planck Institute for the Structure and Dynamics of Matter
Collaborations with experimental groups for twisted
heterostructures and mentoring of students in the research
group.

11.2018 - 10.2021 Bremen, Germany

Postdoctoral Research Associate

University of Bremen

Implementing highly-optimized low-energy models for twisted heterostructures and mentoring of students in the research group.

EDUCATION

09.2015 - 05.2019 PhD in Physics Madrid, Spain Materials Science Institute of Madrid (CSIC) PhD thesis: Electronic correlations in multiorbital systems. Qualification: Cum Laude (maximum grade in the Spanish system). 09.2014 - 06.2015 MSc in Nanophysics and Advanced Materials Madrid, Spain University Complutense of Madrid MSc thesis: Optoelectronic properties of zinc and strontium germanate nanostructures. Qualification: 9.5/10. 09.2010 - 06.2014 **BSc in Physics** Valladolid, Spain University of Valladolid BSc thesis: Electronic shells in nanoparticles. Qualification: 10/10 (Outstanding).

REFERENCES

Prof. Dr. Tim O. Wehling, University of Hamburg, Germany tim.wehling@physik.uni-hamburg.de, +49 40 42838 2916

Prof. Dr. Roser Valentí, Goethe University of Frankfurt am Main, Germany valenti@itp.uni-frankfurt.de, +49 69 798 47816

Dr. Elena Bascones, Materials Science Institute of Madrid (CSIC), Spain leni.bascones@icmm.csic.es, +34 91 3349041

■ PUBLICATIONS

06.2022	Doping fingerprints of spin and lattice fluctuations in moiré superlattice systems ∂ Phys. Rev. B 105, L241109
11.2020	Deconfinement of Mott localized electrons into topological and spin-orbit coupled Dirac fermions <i>⊗</i> npj Quantum Materials 5, 79
10.2019	Internal screening and dielectric engineering in Magic-Angle Twisted Bilayer Graphene & Phys. Rev. B 100, 161102(R)
03.2019	The nature of correlations in the insulating states of twisted bilayer graphene <i>⊗</i> J. Phys. Commun. 3 035024

01.2019	Strong electronic correlations and Fermi surface reconstruction in the quasi-one dimensional iron superconductor BaFe2S3 & Phys. Rev. Materials 3, 014801
02.2017	Strong correlations and the search for high-Tc superconductivity in chromium pnictides and chalcogenides & Phys. Rev. B 95, 075115