Dr. José M. Pizarro

PhD in Physics

29.03.1992

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Page 15 Berlin, Germany

in Jose Pizarro Blanco

@JosePizarro3

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.

LANGUAGES

Spanish
Native

English
High proficiency (C1)

Turkish
Elementary proficiency (A2-B1)

Basic knowledge (A1-A2)

PROFESSIONAL EXPERIENCE

O8.2022 – 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
 Hamburg, Germany
 Postdoctoral Research Associate
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.



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 Madrid, Spain **MSc in Nanophysics and Advanced Materials**

University Complutense of Madrid

MSc thesis: Optoelectronic properties of zinc and strontium

germanate nanostructures. Qualification: 9.5/10.

09.2010 - 06.2014 Valladolid, Spain **BSc in Physics**

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 <i>⊗</i> 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 <i>⊘</i> Phys. Rev. Materials 3, 014801 |
|---------|--|
| 02.2017 | Strong correlations and the search for high-Tc superconductivity in chromium pnictides and chalcogenides <i>⊗ Phys. Rev. B 95, 075115</i> |