



Francisco Ricardo Lobo Ribeiro

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● ABOUT ME

CiêncialD: FE14-FB04-5E0D

● WORK EXPERIENCE

01/2024 – CURRENT Madrid, Spain

PHD RESEARCHER INSTITUTO CIENCIA DE MATERIALES MADRID (ICMM) / CONSEJO SUPERIOR INVESTIGACIONES CIENTÍFICAS (CSIC)

Project title: Many-body attosecond optoelectronics in bidimensional crystals.

Group: ??? (ICMM)

Supervisors: Pablo San-José

Co-Supervisors: Rui Emanuel Silva

PhD in Condensed Matter Physics, NanoScience and BioPhysics. Física de la Materia Condensada, Nanociencia y Biofísica at UAM (Universidad Autónoma de Madrid)

Address Campus de Cantoblanco, C. Sor Juana Inés de la Cruz, 3, Fuencarral-El Pardo,, 28049, Madrid, Spain

10/2022 – 07/2023 Physics Center of Minho and Porto Universities, Portugal

FIRST STAGE RESEARCHER (R1) PORTUGUESE FOUNDATION FOR SCIENCE AND TECHNOLOGY (FCT).

Research Fellowship within the scope of the R&D project “Quantum Nonequilibrium excitons in two-dimensional semiconductors” at the Physics Center of Minho and Porto Universities, reference EXPL/FISMAC/0953/2021, financed the by the State Budget - Portuguese Foundation for Science and Technology (FCT).

Objectives: Determine the energy levels and exciton wave functions in transition metal dichalcogenides (TMDs), specifically hexagonal Boron Nitride (hBN).

● EDUCATION AND TRAINING

09/2021 – 09/2023 Braga, Portugal

MASTER'S STUDENT IN PHYSICS University of Minho

Thesis: Extended and Localized Excitons in Two-Dimensional Semiconductors

Supervisor: Professor Bruno Amorim

Co-Supervisor: Professor Nuno Peres

Sponsors: Research fellowship by FCT

Thesis grade: 19

Average grade: 18

Address R. da Universidade, 4710-057, Braga, Portugal

09/2018 – 08/2021 Braga, Portugal

BACHELOR'S DEGREE IN PHYSICS University of Minho

Thesis: Dark Solitons and Breathers as Solutions of the NonLinear Schrödinger Equation

Supervisor: Professor Yuliy Bludov

Thesis grade: 19

Bachelor's final grade: 17

Address R. da Universidade, 4710-057, Braga, Portugal

● LANGUAGE SKILLS

Mother tongue(s): **PORTUGUESE**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2
SPANISH	B2	B2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Julia | LaTeX LyX | Inkscape

● ADDITIONAL INFORMATION

CONFERENCES AND SEMINARS

01/09/2024 – Portugal (Online)

Quantum Agora Invited Speaker (2024) 57th session of the Quantum Agora, a network of researchers working in the field of Quantum Matter in Portugal, promoted by the QuantumMatter@PT network, entitled "Excitonic properties of hBN from a time-dependent Hartree-Fock mean-field theory".

Link <https://quantummatterpt.weebly.com/>

02/10/2023 – 06/10/2023 – Évora, Portugal

Workshop on Criticality, Dynamics, and Nonequilibrium Behavior in Quantum Systems (2023)

Conference on Condensed Matter Physics at Universidade de Évora.

In the context of disclosing the results of my Master's thesis, I presented a poster on "Excitonic properties of hBN from a time dependent Hartree Fock mean field theory"

Link <https://www.cdnbqs.uevora.pt/Web-2023/webpage/index.php>

11/09/2023 – 15/09/2023 – Madrid, Spain

Course Emergence of Quantum Phases in Novel Materials (2023) Postgraduate Course at the Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC).

In the context of disclosing the results of my Master's thesis, I presented a poster on "Excitonic properties of hBN from a time dependent Hartree Fock mean field theory".

Link <https://wp.icmm.csic.es/emergence/>

04/09/2023 – 08/09/2023 – Milano, Italy

CMD30 FisMat - CNISM (2023) Joint conference on a wide range of topics in Condensed Matter Physics at Politecnico di Milano. Mainly attended colloquiums on Excitonic Physics.

In the context of disclosing the results of my Master's thesis, I presented a mini-colloquium on "Excitonic properties of hBN from a time dependent Hartree Fock mean field theory"

Link <https://eventi.cnism.it/cmd30-fismat>

03/09/2022 – 07/09/2022 – Instituto Politécnico de Tomar

Quantum Matter Summer School (2022) Summer school mainly about Condensed Matter Physics with seminars, hands-on courses and social program.

Link <https://sites.google.com/view/qm-ss2022>

Quantum Matter Toddler's School (2021)

ENEF Coimbra (2020)

FCUP Physics Summer School (2018)

Regional Physics Olympic (2017)