

Luis Roberto Jimenez Arteta

Physics, Magister



About me

I am a theoretical physicist with a deep interest in quantum technology applications and a strong drive to advance my knowledge in physics. I am dedicated to contributing to the field through research, teaching, and scientific publications.

Personal

Luis Roberto Jimenez Arteta
nationality: Colombian
14/11/2000

Areas of specialization

- Quantum technologies
- Computational physics
 - Quantum chemistry
- Semiconductor physics
 - Machine learning

Interests

- Researching, theoretical physics
- Machine learning and IA
 - Many-body quantum mechanics

EDUCATION

2023–2025 M.Sc. in Materials, Nanophysics and Quantum Technology

LEAD · University of Oslo, Norway 📍

I earned my Master's degree in Materials, Nanophysics, and Quantum Technology with a focus on material applications for quantum technologies. My research involved investigating point defects in semiconductors for spin qubits and single-photon emitters.



2017–2023 B.Sc. in Physics

LEAD · University of Atlantico, Colombia 📍

I earned my Bachelor's degree in Physics, with my final project focused on studying the electronic states of a quantum bit (qubit) manipulated by external potentials in a semiconductor nanowire.



CURRICULUM

Jan. 2022– Jul. 2023

Teaching in a secondary school in Colombia, *Tutor of Pre ICFES*

2018– Jul. 2025

I have participated in different research groups at the Universidad del Atlántico and at the University of Oslo.

SKILLS

Programming languages: *Python (high), C++ (basic)*

Software: VASP, Quantum Espresso, and other computational tools for solid-state, quantum simulations and visualization packages.

LANGUAGES

Spanish	C1	●	●	●	●	●	Mother tongue
English	C1	●	●	●	●	●	Fluent

REFERENCES

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