



Mateo Rodríguez

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EDUCATION

UNIVERSITY OF OVIEDO 2020-2025

Bachelor of Science - Physics (240 ECTS)
Bachelor Thesis (TFG) at [SumoLab](#) with a [SPM](#).

VCQ SUMMER SCHOOL: INTERFACING
GRAVITY AND QUANTUM PHYSICS 09/2024

25.5h course, organized by Vienna Center for Quantum Science and Technology. [Certificate](#) [Link](#)

DUTCH SUMMER SCHOOL OF THEORETICAL
PHYSICS 08/2024

1.5 ECTS course on Theoretical Physics.
Utrecht Summer School. [Certificate](#) [Link](#)

XII GEFENOL SUMMER SCHOOL ON
STATISTICAL PHYSICS OF COMPLEX SYSTEMS
07/2024

International 60h course on Complex Systems, applied Artificial Intelligence (AI) and Data Modeling. URJC Madrid. [Certificate](#) [Link](#)

SATURDAYS AI ASTURIAS 02-06/2024

160h AI course with Python in which a project with social impact is developed. [Certificate](#) [Link](#)

TECHNICAL SKILLS

PYTHON

NumPy, SciPy, Pandas, Sklearn, TensorFlow...

L^AT_EX

EXCEL

DATA SCIENCE/ANALYSIS & ML/ AI

LANGUAGES

SPANISH

Native

ENGLISH

Fluent

WORK EXPERIENCE/PROJECTS

RESEARCH INTERNSHIP: SURFACE SCIENCE
2024-2025

Working on Surface & Molecular Physics at [SumoLab](#), a surface science research group which is part of the Nanomaterials and Nanotechnology Research Center ([CINN](#)). Main experience: operating a Low Temperature Scanning Tunneling Microscope ([LT STM](#)) under conditions of low temperature ($T \approx 4K$) and ultra-high vacuum ($P \sim 10^{-11}mbar$).

RESEARCH INTERNSHIP: DATA SCIENCE
09-12/2024

Project [SV-24-GIJON-1-15](#) with a grant funded by [IUTA](#). Creating a Machine Learning (ML) model able to predict faults and performance of a marine diesel engine.

APPLICATIONS OF ML TO THE STUDY OF
BRAIN METASTASES 04-06/2024

Developed inside the context of Saturdays AI Asturias. [Github link](#) [Code link](#)

ABOUT MYSELF

I am interested in science and philosophy, and I love football. Japanese art and culture fascinate me. I come from a family in which hard work and empathy are critical values.

COMING SOON

RESEARCH INTERNSHIP: MOLECULAR &
COMPUTATIONAL PHYSICS 02-05/2025

I will be working for three months on the project *Quantum effects during transport and adsorption of atoms through nanoporous membranes* at the Fundamental Physics Institute ([IFF](#)), thanks to a [JAE Intro ICU](#) grant funded by the Spanish National Research Council ([CSIC](#)).

CERTIFICATIONS

OXFORD JUNIOR PROGRAMMES 07/2018

45 Hour English Course, Edinburgh. [Certificate](#)

CAMBRIDGE FIRST CERTIFICATE 2017

Council of Europe Level B2. [Certificate](#)