

Mateo Rodríguez

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EDUCATION

University of Oviedo

2020-2025

Bachelor of Science - Physics (240 ECTS) Bachelor Thesis (TFG) at <u>SumoLab</u> with a <u>SPM</u>.

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

25.5h course, organized by Vienna Center for Quantum Science and Technology. <u>Certificate</u> <u>Link</u>

DUTCH SUMMER SCHOOL OF THEORETICAL PHYSICS 08/2024

1.5 ECTS course on Theoretical Physics. Utrecht Summer School. <u>Certificate Link</u>

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. $\underline{\text{Certificate}}\ \underline{\text{Link}}$

TECHNICAL SKILLS

PYTHON

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

LALEX

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 <u>SV-24-GIJON-1-15</u> with a grant funded by <u>IUTA</u>. Creating a Machine Learning (ML) model able to predict faults and performace 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 <u>Quantum</u> <u>effects during transport and adsorption of atoms trough</u> <u>nanoporous membranes</u> at the Fundamental Physics Institute (<u>IFF</u>), thanks to a <u>JAE Intro ICU</u> grant funded by the Spanish National Research Council (<u>CSIC</u>).

CERTIFICATIONS

Oxford Junior Programmes

07/2018

45 Hour English Course, Edinburgh. Certificate

CAMBRIDGE FIRST CERTIFICATE

2017

Council of Europe Level B2. Certificate