Mateo Rodríguez

· 01/03/2002 · 🌐 Oviedo, Spain · ✉ mateorsuarez@gmail.com · ▮ · More about me: 🌐 mateo.github.io ·

Education

University of Oviedo   2020-2025

Bachelor of Science - Physics (240 ECTS)
Bachelor Thesis: *Connecting theory and experiment: study of molecules on surfaces trough STM and simulations.*

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...

LaTeX

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 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, I like writing 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 trough 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