

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 FORTRAN

Computational Physics Molecular Dynamics

DATA SCIENCE/ANALYSIS ML/AI

LANGUAGES

Spanish

Native

ENGLISH

Fluent

Work Experience/Projects

Research Internship: Molecular & Computational Physics 02-05/2025

I am working for three months on the project IFF-01 at the Fundamental Physics Institute (IFF), thanks to a JAE Intro ICU competitive grant funded by the Spanish National Research Council (CSIC).

Molecular Dynamics with Fortran and LAMMPS.

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 (<u>LT STM</u>) 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 competitive grant funded by <u>IUTA</u>. We created 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.

CERTIFICATIONS

Oxford Junior Programmes

07/2018

45 Hour English Course, Edinburgh. Certificate

Cambridge First Certificate

2017

Council of Europe Level B2. Certificate