

ALEJANDRO RUIZ MARTÍNEZ

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SUMMARY

Physics BSc and Medical Physics MSc (Sept 2025), focused on deep learning applications to medical imaging. Committed to advancing AI tools in medicine.

EDUCATION

Universitat de València

2024 - 2025

Master of Science: Medical Physics

- GPA of 9.42/10.
- Theoretical and Experimental coursework in Medical Physics (e.g: advanced medical imaging, radiation therapy physics, and hospital-based laboratory training).
- Master Thesis Project: Application of Deep Learning algorithms for the classification of medical images.

Universitat de València

2020 - 2024

Bachelor of Science: Physics

- GPA of 8.67/10.
- Erasmus Exchange Programme at **NTNU** - Trondheim, Norway during the 2023-24 academic year.
- Theoretical and Experimental coursework in Physics (e.g: classical and quantum mechanics, optics, and thermodynamics).
- Bachelor's Thesis: "3D Orientational Imaging of Gallbladder Stones" – researched an innovative X-ray diffraction tensor tomography technique for 3D imaging of materials.

EXPERIENCE & ACTIVITIES

- Vikar i spansk

September 2025 - October 2025

Substitute in Spanish classes for vg1 and vg2 (high-school) for a period of three weeks.

- Private Tutoring Lessons

2020-2023, 2024-2025

One-on-one or small-group in middle and high school subjects tutoring to students of ages 12-18.

- Participant at NASA International Space Apps Challenge Hackathon

October 2024

Developed a software application that allows the visualization of the night sky from different parts of our galaxy.

- Course on Electronic Equipment Experimentation for Low-Level Measurement

July 2024

Completed specialized training on the use and calibration of sensitive electronic instrumentation.

- Undergraduate Researcher

January - July 2024

X-Ray Physics Group, NTNU – Conducted research on X-ray diffraction imaging techniques and presented findings as part of an international team

- Colaborator at Feria Experimenta

2022 and 2023

XVII y XVIII "Experimenta" Fair-Contest of Physics and Technology Experiments and Demonstrations

SKILLS & INTERESTS

LANGUAGES: Spanish and Catalan (native), English (advanced - full professional proficiency, CAE-C1 certificate), Norwegian (elementary/intermediate).

TECHNICAL: Scientific Programming Languages (Python, Matlab, C++), Image Processing, AI, Office Software (Word, PowerPoint, Excel)

OTHERS: : Committed to advancing medical physics and imaging research. Member of the Student Section of the Royal Spanish Society of Physics since 2024.