



INSTITUTO DE ASTROFÍSICA DE CANARIAS

Dear Admissions Committee,

I am pleased to write this letter in support of Mr. Alberto Reyes Castro's application to a postgraduate programme in Artificial Intelligence or a related field. I had the opportunity to supervise Alberto during his eight-week external internship at the Instituto de Astrofísica de Canarias (IAC), where he collaborated with the Department of Communication and Scientific Culture (UC3), accredited by the Spanish Foundation for Science and Technology (FECYT) under the Ministry of Science and Innovation of the Government of Spain.

As his internship supervisor, I oversaw a wide range of his tasks, from organising outreach activities to developing custom software tools. From the outset, he made meaningful contributions to both the technical and communicative aspects of our projects.

Alberto has demonstrated a notable aptitude for programming and automation, supported by a strong personal interest in the field. Notably, he developed a Python-based transcription system capable of processing raw audiovisual content and generating precisely segmented multilingual subtitles. This tool significantly reduced manual workload and highlighted his proficiency with libraries such as SpeechRecognition, as well as his skills in algorithm design.

He also devised a semi-automated method using regular expressions and fuzzy string matching to link outreach articles with our scientific publications database. His solution greatly accelerated the review process while maintaining a high standard of accuracy and reliability.

In the area of scientific software and documentation, Alberto worked with specialised astronomical tools such as PeterSoft for data analysis and visualisation. He also prepared technical reports and structured documents using LaTeX, reflecting his attention to detail and familiarity with academic standards.

Despite his academic background in Physics, Alberto integrated seamlessly into a multidisciplinary environment. He collaborated with journalism interns, translated and subtitled interviews — including those with Nobel Laureates Donna Strickland and John Mather — and adapted technical content for diverse audiences.

He also contributed to the planning and communication strategy for a public solar eclipse observation event held at the Teide Observatory in Tenerife.

Throughout his internship, Alberto demonstrated a strong interest in Artificial Intelligence, particularly in applications involving automation and text analysis. His self-directed learning and ability to apply AI principles in real-world contexts clearly reflect his motivation and readiness for advanced study.

Alberto is dedicated, reliable, and quick to adapt to new challenges. Even when working remotely or under tight deadlines, he consistently delivered high-quality work and collaborated effectively with the team.

For all these reasons, I am confident that Mr. Alberto Reyes Castro possesses the intellectual curiosity, technical proficiency, and interdisciplinary mindset required to thrive in postgraduate studies in Artificial Intelligence or a related field. I recommend him without reservation and would be pleased to provide further information if required.

Yours sincerely,

Verónica María Martín Jiménez