



# Cecilia Arrizabalaga Díaz-Caneja

PhD Candidate – EDUCADO Doctoral Network (Horizon Europe, MSCA DN)

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## EDUCATION

### PhD Candidate – EDUCADO Doctoral Network

2024 – Present University of Naples Federico II

- **Research:** Detection and analysis of faint structures in noisy CO datacubes using computational methods. Supervised by: Dr. Anelise Audibert, Dr. Giuseppe Longo.

### Master's Degree in Observational and Instrumental Astrophysics

2022 – 2024 University of La Laguna – Instituto de Astrofísica de Canarias (IAC)

- **Thesis:** “Code for decomposing the discs of edge-on galaxies into their thin and thick components”. Supervised by: Dr. Sébastien Comerón.

### Degree in Physics

2018 – 2022 University of La Laguna

- **Thesis:** “Artificial Neural Networks and their use in simulation-based inference with the CAMELS dataset”. Supervised by: Dr. Marc Huertas-Company.

## SCHOOLS AND TRAINING

- 2nd IAA-CSIC Severo Ochoa Advanced School on Galaxy Evolution – Granada, Spain (May 2025)
- EDUCADO Doctoral Training School in Galaxy Formation, Observing Techniques, Astro-informatics and Milky Way Structures – Padova, Italy (February 2025)
- EDUCADO Training School on Computer Science – San Cristóbal de La Laguna, Spain (June 2025)
- Masterclass on Radio Astronomy and Data Visualization – San Cristóbal de La Laguna, Spain (December 2025)

## SCIENCE OUTREACH

- *Asteroides* – Co-founder and active contributor.  
Initiative for science outreach in Basque, where I publish articles on astronomy and astrophysics to engage the public and promote scientific knowledge.

## LANGUAGES

- Spanish (native).
- Euskera (native and C1, EGA (Euskararen Gaitasun Agiria)).
- English (C2, Cambridge English Level 3 Certificate in ESOL International (Proficiency)).

## PROGRAMMING SKILLS

- Python.
- HTML.
- MATLAB.

## SPECIFIC SOFTWARE TOOLS

- CARTA.
- DS9.
- QFitsView.
- TOPCAT.

## OBSERVATIONS

- Two nights (visitor-mode observations) with the Isaac Newton Telescope (INT) of the Isaac Newton Group of Telescopes (ING) at the Observatorio del Roque de los Muchachos (ORM) in La Palma and its Wide Field Camera (WFC).
- Two nights with the Mercator Telescope at the Observatorio del Roque de los Muchachos (ORM) in La Palma and its optical spectrograph HERMES.
- Six nights (visitor- and service-mode) with the IAC80 telescope at Teide Observatory (OT) in Tenerife and its CAMELOT2 CCD camera.
- 30 hours with the robotic Las Cumbres Observatory global telescope network (LCOGT).