

Miriam Rodríguez Sánchez

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Education

- 2022 – present **PhD in Physics**
Nonlinear studies of delta Scuti stars
University of Valencia (Spain)
- 01/09-01/12/2025 **International PhD Research Stay**
Supervisor: Prof. Dr. Conny Aerts
KU Leuven (Belgium)
- 15/01-14/04/2020 **Erasmus + internship**
Data analysis of Gravitational Wave detections
Aristotle University of Thessaloniki (Greece)
- 2016–2019 **Master in Astrophysics**
**Study of the oldest population in the dwarf galaxy
of the Local Group IC 1613 from its RR Lyrae variable stars**
University of La Laguna (Spain)
- 2009-2016 **Bachelor degree in Physics**
University of Granada (Spain)

Teaching and tutoring experience

- 2nd term course 2024-2025 **Mathematics II**
2nd term course 2023-2024 Hands-on laboratory: Basic numerical methods with Python.
Co-development of the teaching material for hands-on sessions
Degree in Computer Engineering
ETSE, University of Valencia (Spain)
- 1st term course 2024-2025 **Mathematics III**
1st term course 2023-2024 Hands-on laboratory: Numerical methods with MATLAB.
Degree in Telematics Engineering
ETSE, University of Valencia (Spain)
- Course 2021-2022 **Master's thesis**
cotutoring with Dr. Giovanni Mirouh
Guillermo RF: High Amplitude Delta Scuti stars
International University of Valencia, VIU (Spain)

Conferences and talks

- 7-11 July 2025, Vienna, Austria **TASC9/KASC16 workshop**
Going Beyond Linearity: Understanding Delta Scuti Pulsations
Poster contribution
- 23-27 June 2025, Cork, Ireland **European Astronomical Society Annual Meeting**
Advances in Nonlinear Approaches for delta Scuti Stars
ePoster contribution
- 26-30 November 2024, Mallorca, Spain **11th Iberian Meeting on Asteroseismology**
Achieving non-linear models for delta Scuti Stars
Talk contribution
- 15-19 July 2024, Porto, Portugal **TASC8/KASC15 workshop**
Achieving non-linear models for delta Scuti Stars
Talk contribution

1-5 July 2024, Padova, Italy	European Astronomical Society Annual Meeting Achieving non-linear models for delta Scuti Stars Talk contribution
25-29 September 2023, Lanzarote, Spain	10th Iberian Meeting on Asteroseismology On the path to obtaining non-linear models for delta Scuti Stars Talk contribution
17-21 July 2023, University of Hawai'i, USA	TASC7/KASC14 workshop On the path to obtaining non-linear models for delta Scuti Stars Poster contribution
26-30 June 2023, Milazzo, Italy	PLATO Stellar Science Conference 2023 On the path to obtaining non-linear models for delta Scuti Stars Poster contribution
3-7 October 2022, Montanejos, Spain	9th Iberian Meeting in Asteroseismology Study of the non-linearities in Delta Scuti Stars Talk contribution and part of the LOC
5-9 September 2022, University of La Laguna, Tenerife	XV Scientific Meeting SEA Non-linear models for Delta Scuti stars Poster contribution
11-15 July 2022, Leuven, Belgium	TASC6/KASC13 Workshop Non-linear models for Delta Scuti stars Poster contribution
27 June-1 July 2022, Valencia	European Astronomical Society Annual Meeting Volunteer

Schools and seminars

21-26 July 2024, Vila do Conde, Portugal	Porto Summer School on Asteroseismology: From Pixels to Stellar Ages
01-03-2024, University of Valencia	Studying the nonlinearities in the delta Scuti Stars through Asteroseismology Student seminar

Science Outreach

2025-present	Skype a scientist
2024-present	Outreach PLATO Spain Valencia node
2025	Expociència 2025 Valencia (Spain)
2024	Expociència 2024 Valencia (Spain)

4-8 September 2023

Escola d'Estiu Erasmus de Física (E3F)
Do the stars have rhythm? (Asteroseismology in action)
Invited speaker
Valencia (Spain)

2023

Exposició 2023
Valencia (Spain)

2022

Exposició 2022
Valencia (Spain)

Skills

Programming

Python — Advanced level (scientific computing, data analysis)
MATLAB — Intermediate level
R — Basic level

Languages

Spanish — Native
English — C1 (Cambridge)