

Mariel Lares Martiz

- **Place and date of birth:** Caracas , July 18th, 1987
- **Phone:** +34 629691162
- **E-mail:** mlm@iaa.es
- **Nationality:** Venezuelan and Spanish

EDUCATION

- November 2016-currently **PhD. Student**
Supervisors: Rafael Garrido and Javier Pascual Granada.
"Non-linear terms in Delta Scuti star power spectra"
Institute of Astrophysics of Andalusia (IAA-CSIC)
Granada, Spain.
- September 2006- February 2014 **Bachelor of Science in Physics (300 ECTS)**
University of Barcelona.
Barcelona, Spain.
- September 1999- July 2004 **Science High School Diploma**
Educational Centre of the Association of Professors of the
Central University of Venezuela (CEAPUCV).
Caracas, Venezuela.

RESEARCH EXPERIENCE

Scientific publications:

- **June 2018:** Astronomy & Astrophysics, Volume 614, id.A40, 26 pp. "Impact of gaps in the asteroseismic characterization of pulsating stars. I. The efficiency of pre-whitening". **Co-author.**
- **January 2019:** eprint arXiv:1901.10476. "Physical insights on fractal analysis applied to light curves of δ Scuti stars ". **Co-author.**
- **March 2019:** Highlights on Spanish Astrophysics X, Proceedings of the XIII Scientific Meeting of the Spanish Astronomical Society held on July 16-20, 2018, in Salamanca, Spain, ISBN 978-84-09-09331-1. B. Montesinos, A. Asensio Ramos, F. Buitrago, R. Schödel, E. Villaver, S. Pérez-Hoyos, I. Ordóñez-Etxebarria (eds.) p. 415-415. "Direct Deconvolution: a method to minimize the effects of the observational window on power spectra ". **First author.**
- **August 2019:** Monthly Notices of the Royal Astronomical Society, Volume 487, Issue 3, p.3523-3549. "Rotation and pulsation in Ap stars: first light results from TESS sectors 1 and 2". **Co-author.**
- **August 2019:** Monthly Notices of the Royal Astronomical Society, Volume 487, Issue 3, p.4457-4463. "A fractal analysis application of the pre-whitening technique to δ Scuti stars time series". **Co-author.**
- **December 2019:** Monthly Notices of the Royal Astronomical Society. Volume 490, Issue 3, p.4040-4059. "The first view of δ Scuti and γ Doradus stars with the TESS mission". **Co-author.**
- **April 2020:** Frontiers in Astronomy and Space Sciences. Volume 12, Issue 03/19, 12pages. "Towards a new paradigm in the analysis of asteroseismic lightcurves". **Co-author.**
- **August 2020:** Monthly Notices of the Royal Astronomical Society. Volume 498, Issue 1, p.1194-1204. "Self-consistent method to extract non-linearities from pulsating star light curves - I. Combination frequencies". **First author.**

Research stays:

- 3 months in the Institute of Astronomy (IvS) of the KU Leuven.
Supervisor: Dr. Dominic Bowman
September 2019-November 2019

Conferences:

- **March 2017.** Granada, Spain. Time and Measurement workshop. **Local Organizer Committee (LOC).**

- **July 2017.** Birmingham, UK.TASC3/KASC10. **Poster.**
- **May 2017.** Granada, Spain. JIFFI 2017. **Poster.**
- **June 2018.** Arhus, Denmark .TASC4/KASC11. **Poster.**
- **July 2018.** XIII meeting of the Spanish Society of Astronomy (SEA): **Poster.**
- **June 2018.** Granada, Spain. JIFFI 2018. **Talk.**
- **February 2019.** Granada, Spain. Limb darkening. Plato meeting. **Local Organizer Commite (LOC).**
- **June 2019.** Boston, USA. TASC5/KASC12. **Poster.**
- **October 2020.** Granada, Spain. Iberian meeting on Asteroseismology. **Talk.**

SKILLS

Programming abilities:

- | | |
|-----------------|------------|
| • Fortran | • HTML |
| • Ruby | • CSS |
| • Python | • Git |
| • R | • RSpec |
| • Ruby on Rails | • Cucumber |

Languages:

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|-----------|-----------|
| • Spanish | • Catalan |
| • English | |

OTHER DATA

Volunteer Experiences:

- | | |
|---|--|
| • English-Spanish Translator
Barcelona Yoga Conference
Barcelona, Spain
2013 | • Logistics Staff
Special Olympics organization
Caracas, Venezuela
2004 |
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Entrepreneurship experiences:

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|--|--|
| • “Un cuadrado intentando rodar”
Self published graphic novel
ISBN 978-84-608-9589-3
2015-2016 | • Villa Amparo Escape Room and
Lock-in Escape Rooms
Creative and Owner
Open and profitable in Granada
Since 2017 |
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