

# Lorena Acuña Aguirre - Curriculum Vitae

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## Employment

**Dec 2022-Present** Postdoctoral researcher - Max Planck Institute for Astronomy, Germany  
**Oct 2019-Nov 2022** Doctorant contractuel (Graduate researcher) - Aix-Marseille University, France.

## Education

**2022** PhD in Astrophysics - Aix-Marseille University, France.  
Thesis: *Modeling the populations of the low mass planets: transition between super-Earths and mini-Neptunes.*  
Advisors: Magali Deleuil and Olivier Mousis.

**2019** MSc in Astrophysics - Lund University, Sweden.  
Thesis: *Detailed analysis of chemical composition of stars harbouring Earth-like planets.*  
Supervisor: Fan Liu.

**2017** BSc in Physics - Complutense University of Madrid, Spain.  
Thesis: *The current state of the art in exoplanet research.*  
Supervisor: Elisa de Castro Rubio.

## Scholarships

**2019** LEAPS Summer program - European Space Agency/Leiden Observatory.  
*Exploring the clearness/cloudiness of the atmosphere of gas giant exoplanets.*  
Supervisors: Nicolas Crouzet and Sandor Kruk

**2017** Collaboration scholarship - Spanish Ministry of Education.  
*Determining the membership of FGKM stars to young kinematic groups and associations by using GAIA data.*  
Supervisor: David Montes Gutiérrez.

## Conferences

### Contributed talks

1. Celebrating JWST's first six months of exoplanet data. Rinberg Castle, Kreuth (Germany). Nov. 2022.
2. Europlanet Science Congress 2022 (EPSC2022). Granada (Spain), Sept. 2022.
3. Semaine de l'astrophysique française 2022. Besançon (France). June 2022.
4. PLATO mission conference 2021. Virtual, Oct. 2021.
5. Europlanet Science Congress 2021 (EPSC2021). Virtual, Sept. 2021.
6. Semaine de l'astrophysique française (SF2A). Virtual, June 2021.
7. PLATO mission conference 2020. Virtual, Dec. 2020.

### Contributed posters

1. TESS Science conference II. Virtual, August 2021.
2. ARIEL: Science, Mission & Community 2020. ESTEC, Noordwijk, The Netherlands. January 2020.

## Attended workshops

1. 'Astrobiology Introductory Course' (RED21). Virtual, June 2021.
2. 'Exoplanet atmosphere characterization: from HST and Spitzer to JWST'. Virtual, March 2021.
3. Summer school 'Basics of Astrobiology'. University of Vienna. Vienna (Austria). August 2018.
4. Complutense Summer School 'The Moon: from labs to towns'. Complutense University of Madrid. El Escorial (Spain.) June 2016.

## Observational program

**2019B-2022B** Co-I: 48 hrs each semester. SOPHIE Spectrograph.  
Observatoire de Haute Provence, France.

## Outreach

**2021-2022** Engaged in Q&A and telescope show with Marseille's planetarium and outreach association 'Andromede'.

**2017-2019** Board member of ALVA - Lund University, Sweden.  
Arranged workshop on astrophotography, participated in teaching sessions about telescope usage and Q&A in stargazing nights.

## Skills

- **Programming Languages**

Fortran, Python, IRAF, IDL, LaTeX, MATLAB, R, Maple, SME.

- **Languages**

Spanish: native.

English: level C1, Advanced Certificate in English (CAE).

French: level B1, intermediate.

Swedish: elementary.

- **Other**

Spanish driving license (B), 2014.