

Lorena Acuña - Curriculum Vitae

Address Laboratoire d'Astrophysique de Marseille, Aix-Marseille University.
Pôle de l'Étoile Site de Château-Gombert
38, rue Frédéric Joliot-Curie
13388 Marseille cedex 13, France.

Email lorena.acuna@lam.fr

Web <https://lorenaacuna.github.io>

Employment

2019-Present Doctorant contractuel (Graduate researcher) - Aix-Marseille University, France.

Education

2019-2022 PhD in Astrophysics - Aix-Marseille University, France.
Modeling the populations of the low mass planets: transition between super-Earths and mini-Neptunes. Advisors: Magali Deleuil and Olivier Mousis.

2017-2019 MSc in Astrophysics - Lund University, Sweden.
Detailed analysis of chemical composition of stars harbouring Earth-like planets.
Supervisor: Fan Liu.

2013-2017 BSc in Physics - Complutense University of Madrid, Spain.
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.

Contribution in conferences

1. Contributed talk, PLATO mission conference 2021. Virtual, Oct. 2021.
2. Contributed talk, Europlanet Science Congress 2021 (EPSC2021). Virtual, Sept. 2021.
3. Contributed poster, TESS Science conference II. Virtual, August 2021.
4. Contributed talk, Semaine de l'astrophysique française (SF2A). Virtual, June 2021.

5. Contributed talk, PLATO mission conference 2020. Virtual, Dec. 2020.
6. Contributed poster, ARIEL: Science, Mission Community 2020 conference. ESA/ESTEC, Noordwijk, The Netherlands. January 2020.

Attended workshops

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

Observational program

2019B-Present Co-I: 56 hrs each semester. SOPHIE Spectrograph.
Observatoire de Haute Provence, France.

Outreach

2021-Present 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.