

Paulina PALMA-BIFANI

Astrophysicist

Laboratoire Lagrange, CNRS, Observatoire de la Côte d'Azur, 06304, Nice, France

Email: paulina.palma-bifani@oca.eu

Website: <https://lagrange.oca.eu/en/paulina-palma-bifani>

GitHub: <https://github.com/Palma-Bifani>

ORCID: <https://orcid.org/0000-0002-6217-6867>

Phone: +33 7 65 70 90 20

RESEARCH INTEREST

My research focuses on characterizing the spectra of directly imaged exoplanets. I explore their atmospheric compositions and physical properties, aiming to understand planetary diversity, formation, and evolution. During my career, I aspire to advance the search for and characterization of Earth-like planets, aiming to reliably identify signs of life.

EDUCATION & DEGREES

- 3/2022-3/2025 **Doctor in Sciences of the Planet and Universe:** Laboratoire Lagrange, Université Côte d'Azur, Nice, France
Supervisors: Gaël Chauvin and Pierre Baudoz
- 3/2020-1/2022 **Master in Science, Mention in Astronomy,** Universidad de Chile, Santiago
Supervisors: Patricio Rojo and Gaël Chauvin
- 3/2015-1/2020 **Bachelor of Science, Mention in Astronomy**
Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile, Santiago
- 3/2000-11/2014 **Complete School Education:** Colegio Suizo de Santiago, Chile

EXPERIENCE

Telescope Observations	05/2023 04/2024	0.6m telescope at Cerro Tololo: Two Nights transiting exoplanets observations. HiRISE at the VLT/ESO: Two Nights high spectral resolution observations of directly imaged exoplanets.
Teaching	2023,2022, 2021 2022 2017 - 2021	Teacher assistant at the Code/Astro Workshop. Online in 2021 and 2022, and at Northwestern University, Evanston, USA in 2023. Teacher of experimental physics at Universidad Andres Bello. Teacher assistant of Experimental Astronomy, Electromagnetism, General Astronomy, Experimental Methods, Newtonian Systems, and Differential and Integral Calculus at Universidad de Chile.
Supervision	Summer 2024 Summer 2023	Master student supervision for a three months internship developing a Python package (exoSpin) to measure spin axes of exoplanets. Master student supervision for a two months internship to perform the atmospheric analysis of the exoplanet AF Lep b.
Organization	07/2024 03/2022 11/2022	LOC at Two Horses conference in Berlin, Germany. Url: https://sites.google.com/view/two-horses/ PI of the Science & Commit Workshop, which was fully remote (https://science-and-commit.github.io). SOC and LOC of the Exo-ELT Workshop in Frejus, France.

CONFERENCES AND WORKSHOPS

◆ Two Horses Conference	Berlin, Germany	15-20 July 2024	Talk
◆ Exoplanets 5 Conference	Leiden, Netherlands	17-21 June 2024	Posters (2)
◆ SF2A 2024 Conference	Marseille, France	4-6 June 2024	Talk
◆ IPAG visit	Grenoble, France	26-29 Feb. 2024	Seminar
◆ HRAA Day at LESIA	Paris, France	19 January 2024	Invited talk
◆ SF2A 2023 Conference	Strasbourg, France	20-23 June 2023	Talks (3)
◆ EDSFA Second year PhD Workshop	Nice, France	25 May 2023	Poster
◆ Seminar at Universidad de Chile, Universidad de Valparaíso, and Universidad Adolfo Ibáñez	Santiago and Valparaíso, Chile	May 2023	Seminar (3)
◆ Cloud Academy, IPAG	Les Houches, France	26-31 Mar. 2023	Talk + Hands-on
◆ Exo-ELT Workshop	Frejus, France	8 Nov. 2022	Talk
◆ Other Worlds Laboratory Summer Program (OWL), University of Santa Cruz	Santa Cruz, USA	5 July 2022	Talk
◆ In the Spirit of Lyot, Leiden Observatory	Leiden, Netherlands	27 June 2022	Poster
◆ Atmospheres, Atmospheres! Do I look like I care about atmospheres? ESO	Online	August 2021	Talk

(The above list only includes the most important talks and posters. Count=19)

COLLABORATIONS AND RESPONSABILITY ROLES

- MICADO and MORFEO Consortia. (2022 -)
- High-contrast Early Release Science (ERS) JWST. (2022 -)
- ForMoSA developer team (github.com/exoAtmospheres/ForMoSA) (2020 -)
- Student representative at Departamento de Astronomía, Universidad de Chile. (2020 - 2021)

GRANTS & AWARDS

Science & Commit, Grant to support outreach initiatives by the department of Postgrado y Postítulo, Universidad de Chile: "Estímulo para proyectos académicos de estudiantes de postgrado" (2021-2022; \$1.500.000 CLP)

GENERAL SKILLS

Programs: Python, git & GitHub, Anaconda, HTML, Office, Matlab, LaTeX

Operating systems: MacOS, Linux

Languages: Spanish (Native), German (Fluent; Schprachdiplom C1), English (Fluent), French (Medium)

CONTACTS FOR REFERENCES

Gaël Chauvin: CNRS researcher, Laboratoire Lagrange, e-mail: gael.chauvin@oca.eu

Patricio Rojo: Assistant profesor, Universidad de Chile, e-mail: pato@das.uchile.cl

Pierre Baudoz: Astronomer, Observatoire de Paris, e-mail: pierre.baudoz@obspm.fr