
Paulina PALMA-BIFANI

Astrophysicist

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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

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