

Aline Novais

POSTDOCTORAL RESEARCHER · SCIENCE COMMUNICATOR

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EMPLOYMENT

Postdoctoral Fellow in Exoplanet Atmospheres · Lund University

2024–PRESENT

EDUCATION

Guest PhD Researcher · Ludwig Maximilian University of Munich

February 1–July 31, 2023

PhD in Astronomy · Valongo Observatory, Federal University of Rio de Janeiro [[Read Thesis](#)]

2019–2024

Master Degree in Astronomy · Valongo Observatory, Federal University of Rio de Janeiro [[Read Thesis](#)]

2017–2019

Bachelor Degree in Astronomy · Valongo Observatory, Federal University of Rio de Janeiro [[Read Thesis](#)]

2012–2017

· Research at the National Observatory, Rio de Janeiro

2015–2017

PUBLICATION

4. **A. Novais**, C. Fisher, K. Heng, D. Kitzmann, B. Thorsbro, L. Ghezzi (in review). “Parameter degeneracies associated with interpreting HST WFC3 transmission spectra of exoplanetary atmospheres.”

3. A. Lueber, **A. Novais**, C. Fisher, K. Heng, 2024. “Information content of JWST spectra of WASP-39b.” *Astronomy & Astrophysics (A&A)*, v. 687, p. A110. doi: 10.1051/0004-6361/202348802. [[arXiv](#)] [[PDF](#)]

2. **A. Novais**, C. Fisher, L. Ghezzi, K. Heng, 2023. “Effects of pressure dependency in exoplanetary atmospheric retrieval.” *Bulletin of the Brazilian Astronomical Society (SAB)*, v. 35, n. 1, p. 7-11. ISSN: 0101-3440. [[PDF](#)]

1. **A. Novais**, D. Andrade, H. Boechat-Roberty, 2020. “Formation and destruction of organic molecules in the upper atmosphere of Titan.” *Bulletin of the Brazilian Astronomical Society (SAB)*, v. 32, n. 1, p. 10-11. ISSN: 0101-3440. [[PDF](#)]

OBSERVING PROPOSALS

AS CO-INVESTIGATOR (CO-I)

1. **GHOST Spectrograph @ Gemini South** · Semester 2025A, 5.3 hours. *Program ID GS-2025A-Q-121*

PRESENTATION

ORAL CONTRIBUTIONS

XVII Latin American Regional IAU Meeting (LARIM) · Montevideo, Uruguay

November 28, 2023

XLVI Anual Meeting of the Brazilian Astronomical Society (SAB) · Rio de Janeiro, Brazil

October 2, 2023

Goldschmidt · Lyon, France

July 11, 2023

CN-2 “Planets and other Habitats” Science Afternoon · Garching, Germany

March 6, 2023

XLV Anual Meeting of the Brazilian Astronomical Society (SAB) · Online

September 28, 2022

Exoplanet Atmospheres Workshop · Online

March 9, 2022

IV Anual Meeting of the Brazilian Society of Astrobiology (SBAstrobio) · Online

November 26, 2021

Astrobiology Graduate Conference (AbGradCon) · Online

September 17, 2021

XLIV Anual Meeting of the Brazilian Astronomical Society (SAB) · Online

September 14, 2021

Astrobiology Graduates in Europe (AbGradE) · Online

September 2, 2021

Exoplanet Atmosphere Characterization: from HST and Spitzer to JWST · Online

March 11, 2021

1st Brazilian Women’s Meeting in Astrophysics, Gravitation and Cosmology · Online

February 8, 2021

Precision Spectroscopy Stellar Connections: From Galaxy Evolution to Exoplanets · Online

February 1, 2021

II Anual Meeting of the Brazilian Society of Astrobiology (SBAstrobio) · São Paulo, Brazil

October 17, 2019

Astrochemistry LLAMA Meeting (ALLAM) · São Paulo, Brazil

August 9, 2019

Astrobiology Graduate Conference (AbGradCon) · Salt Lake City, USA

July 22, 2019

Precision Spectroscopy 2018: From the First Stars to Exoplanets · São Paulo, Brazil

September 10–11, 2018

POSTER CONTRIBUTIONS

Astrobiology Graduates in Europe + Europlanet Early Career Network (AbGradEPEC) · La Palma, Spain	May 5, 2023
Exoplanets III · Online	July 31, 2020
XLIII Anual Meeting of the Brazilian Astronomical Society (SAB) · São Paulo, Brazil	September 12, 2019
XLII Anual Meeting of the Brazilian Astronomical Society (SAB) · São Paulo, Brazil	July 12, 2018
1st Anual Meeting of the Brazilian Society of Astrobiology (SBAstrobio) · São Paulo, Brazil	July 11, 2018
XL Anual Meeting of the Brazilian Astronomical Society (SAB) · Ribeirão Preto, Brazil	August 31, 2016

TEACHING EXPERIENCE

Assistant Lecturer: “Planetary Systems” (Master’s course) · Lund University	September 02–October 30, 2024
Mentor for Freshmen Students: “Astrobiology and Exoplanets” · Federal University of Rio de Janeiro (UFRJ)	2021–2023
Teaching Traineeship: “Planetary Systems” (Bachelor’s course) · Federal University of Rio de Janeiro (UFRJ)	2020
Teaching Traineeship: “Astrobiology” (Bachelor’s course) · Federal University of Rio de Janeiro (UFRJ)	2019
Introduction Course: “Astrochemistry and the Molecules of Life” · Museum of Astronomy and Related Sciences (MAST)	May 2, 2019
Tutoring: “Physics IV – Optics, Special Relativity” (Bachelor’s course) · Federal University of Rio de Janeiro (UFRJ)	2015

REFEREE EXPERIENCE

Examining Committee for Bachelor Thesis “Detailed Diagnosis of Absorption Lines in Solar Twin Stars” by Francielle Maria Antonio Silva · Federal University of Rio de Janeiro	December 17, 2024
Examining Committee for Bachelor Thesis “Size Determination of Small Solar System Bodies from Single-String Occultation Events” by Natasha Costa da Fonseca · Federal University of Rio de Janeiro	August 30, 2024
Examining Committee for Bachelor Thesis “Ionic Desorption of Methanol Ice in Different Space Environments” by Tarek Eduardo Haimuri Guimarães · Federal University of Rio de Janeiro	February 23, 2024
Abstract Reviewer for Astrobiology Graduate Conference (AbGradCon) 2023 · Online	March, 2023
Examining Committee for Bachelor Thesis “Use of Machine Learning for Stellar Spectral Classification” by Julia Camões Alves · Federal University of Rio de Janeiro	August 19, 2022

GRANTS, FELLOWSHIPS, AND AWARDS

Research Grant · Royal Physiographic Society, from the Walter Gyllenberg Foundation · ~13 000 EUR	2024
International Research Scholarship · Institutional Program for Internationalization (PrInt), from the Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES) · 10 200 EUR	February 1–July 31, 2023
PhD Scholarship · Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES)	2019–2024
MSc Scholarship · Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES)	2017–2019
Honorable Mention · Scientific Initiation Journey (JICON) at the National Observatory (ON/MCTIC)	2017

EXTRACURRICULAR ACTIVITIES

Article in Magazine “Revista Brasileira de Astronomia”	September 30, 2024
Science Outreach Events, Planetarium, and Telescope Observations “Kulturnatten”, “ForskarFredag”, “Astronomins dag och natt”	2024–PRESENT
Science Outreach Talks and Roundtable Discussions Valongo Observatory (OV/UFRJ), Institute of Physics (IF/UFRJ), “Pint of Science Brazil”	2018–PRESENT
Interviews, Podcasts, and Live Streams “Superinteressante”, “g1”, “CNN Brazil”, “Canal Tech”	2019–PRESENT
Science Outreach on Social Media Twitter, Bluesky, Instagram, Tiktok, YouTube	2017–PRESENT
Graduate Students Representative Valongo Observatory, Federal University of Rio de Janeiro	2017–2019, 2021–2022