

Aline Novais

POSTDOCTORAL RESEARCHER · SCIENCE COMMUNICATOR

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Employment

Postdoctoral Fellow in Exoplanet Atmospheres · Lund University 2024–PRESENT

Education

PhD in Astronomy · Valongo Observatory, Federal University of Rio de Janeiro [[Read Thesis](#)] 2019–2024
· Guest researcher at the Ludwig Maximilian University of Munich February 1–July 31, 2023

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, L. Ghezzi (submitted). *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-Roberly, 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](#)]

Presentation

PLENARY SESSIONS

XLVI Annual Meeting of the Brazilian Astronomical Society (SAB) · Rio de Janeiro, Brazil October 2, 2023

ORAL CONTRIBUTIONS

XVII Latin American Regional IAU Meeting (LARIM) · Montevideo, Uruguay November 28, 2023

Goldschmidt · Lyon, France July 11, 2023

CN-2 “Planets and other Habitats” Science Afternoon · Garching, Germany March 6, 2023

XLV Annual Meeting of the Brazilian Astronomical Society (SAB) · Online September 28, 2022

Exoplanet Atmospheres Workshop · Online March 9, 2022

IV Annual Meeting of the Brazilian Society of Astrobiology (SBAstrobio) · Online November 26, 2021

Astrobiology Graduate Conference (AbGradCon) · Online September 17, 2021

XLIV Annual 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 Annual 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 “Size Determination of Small Solar System Bodies from Single-String Occultation Events” by Natasha Costa · 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

Honors and Awards

Honorable Mention · National Observatory (ON/MCTIC) 2017
 Scientific Initiation Journey at the National Observatory (JICON) for the work “Study of the Possible Atmospheres from a Sample of Terrestrial Exoplanets Identified by the Kepler Mission”

Extracurricular Activities

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