Aline **Novais**

POSTDOCTORAL RESEARCHER · SCIENCE COMMUNICATOR

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EMPLOYMENT

Postdoctoral Fellow in Exoplanet Atmospheres · Lund University, Sweden	2024-PRESENT
EDUCATION	
 PhD in Astronomy · Federal University of Rio de Janeiro, Brazil [<u>Thesis</u>] Guest PhD Researcher at Ludwig Maximilian University of Munich, Germany 	2019–2024 February 1–July 31, 2023
Master Degree in Astronomy · Federal University of Rio de Janeiro, Brazil [<u>Thesis</u>]	2017-2019
Bachelor Degree in Astronomy · Federal University of Rio de Janeiro, Brazil [<u>Thesis</u>] · Research at the National Observatory, Rio de Janeiro, Brazil	2012–2017 2015–2017

PUBLICATION

AS FIRST AUTHOR

4. A. Novais, C. Fisher, L. Ghezzi, D. Kitzmann, B. Thorsbro, K. Heng, 2025. "Parameter degeneracies associated with interpreting HST WFC3 transmission spectra of exoplanetary atmospheres." Monthly Notices of the Royal Astronomical Society (MNRAS), v. 538, i. 4, p. 2521–2547. doi: 10.1093/mnras/staf397. [arXiv][PDF]

3. A. Lueber, A. Novais (shared 1st author), 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)

2. CRIRES+ Spectrograph @ VLT · Cycle P115, 55.0 hours. P.I. B. Prinoth. Program ID 115.2857

1. GHOST Spectrograph @ Gemini South · Semester 2025A, 5.34 hours. P.I. L. Ghezzi. Program ID GS-2025A-Q-121

PRESENTATION

ORAL CONTRIBUTIONS

XVII Latin American Regional IAU Meeting (LARIM) · Montevideo, Uruguay	November 28, 2023
XLVI Annual 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 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) \cdot 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 \cdot Online	March 11, 2021
1st Brazilian Women's Meeting in Astrophysics, Gravitation and Cosmology \cdot Online	February 8, 2021
Precision Spectroscopy Stellar Connections: From Galaxy Evolution to Exoplanets \cdot Online	February 1, 2021
II Annual Meeting of the Brazilian Society of Astrobiology (SBAstrobio) \cdot 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

Last update: March 31, 2025

AS CO-SUPERVISOR

Master Student: Alexandra Stockwell Murphy · Lund University

TEACHING EXPERIENCE

SUPERVISING EXPERIENCE

Assistant Lecturer: "Planetary Systems" (Master's course) · Lund UniversitySeptember 02-October 30, 2024Mentor for Freshmen Students: "Astrobiology and Exoplanets" · Federal University of Rio de Janeiro (UFRJ)2019-2023Teaching Traineeship: "Planetary Systems" (Bachelor's course) · Federal University of Rio de Janeiro (UFRJ)2020Teaching Traineeship: "Astrobiology" (Bachelor's course) · Federal University of Rio de Janeiro (UFRJ)2019Introduction Course: "Astrochemistry and the Molecules of Life" · Museum of Astronomy and Related Sciences (MAST) May2,2019

Tutoring: "Physics IV - Optics, Special Relativity" (Bachelor's course) · Federal University of Rio de Janeiro (UFRJ) 2015

REFEREE EXPERIENCE

Examining Committee for Bachelor Thesis · Federal University of Rio de Janeiro

"Detailed Diagnosis of Absorption Lines in Solar Twin Stars" by Francielle Maria Antonio Silva
 "Size Determination of Small Solar System Bodies from Single-String Occultation Events" by Natasha Costa da Fonseca August
 30, 2024

"Ionic Desorption of Methanol Ice in Different Space Environments" by Tarek Eduardo Haimuri Guimarães February 23, 2024
 "Use of Machine Learning for Stellar Spectral Classification" by Julia Camões Alves August 19, 2022

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Abstract Reviewer for Astrobiology Graduate Conference (AbGradCon) · Online

GRANTS, FELLOWSHIPS, AND AWARDS

Research Grant \cdot Royal Physiographic Society, from the Walter Gyllenberg Foundation \cdot \sim 13 000 EUR	2024
International Research Scholarship · Institutional Program for Internationalization (PrInt), from the Brazilian F	ederal 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 \cdot Scientific Initiation Journey (JICON) at the National Observatory (ON/MCTIC)	2017

EXTRACURRICULAR ACTIVITIES

Article in Magazine · "Revista Brasileira de Astronomia"

Outreach Events, Planetarium, and Telescope Observations · *"Kulturnatten", "ForskarFredag", "Astronomins dag och natt"* 2024–PRESENT

Outreach Talks and Roundtable DiscussionsValongo Observatory and Institute of Physics, Federal University of Rio de
Janeiro, "Pint of Science Brazil" 2019, 20242018–PRESENTInterviews"Folha de São Paulo", "Superinteressante", "g1", "CNN Brazil", "Canal Tech"2019–PRESENT

Science Outreach on Social Media · Twitter, Bluesky, Instagram, Tiktok, YouTube

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

February 2025–July 2026

March, 2023

September 30, 2024

2017-PRESENT