

# 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

### ORAL PRESENTATION

**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  
\*Plenary session

**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 PRESENTATION

**Astrobiology Graduates in Europe + Europlanet Early Career Network (AbGradEPEC)** · La Palma, Spain May 5, 2023

<b>Exoplanets III</b> · Online	July 31, 2020
<b>XLIII Anual Meeting of the Brazilian Astronomical Society (SAB)</b> · São Paulo, Brazil	September 12, 2019
<b>XLII Anual Meeting of the Brazilian Astronomical Society (SAB)</b> · São Paulo, Brazil	July 12, 2018
<b>1st Anual Meeting of the Brazilian Society of Astrobiology (SBAstroBio)</b> · São Paulo, Brazil	July 11, 2018
<b>XL Anual Meeting of the Brazilian Astronomical Society (SAB)</b> · Ribeirão Preto, Brazil	August 31, 2016

## Teaching Experience

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<b>Mentoring for Freshmen Students: “Astrobiology and Exoplanets”</b> · Federal University of Rio de Janeiro (UFRJ)	2021 – 2023
<b>Teaching Traineeship: “Planetary Systems” (bachelor level)</b> · Federal University of Rio de Janeiro (UFRJ)	2020
<b>Teaching Traineeship: “Astrobiology” (bachelor level)</b> · Federal University of Rio de Janeiro (UFRJ)	2019
<b>Introduction Course: “Astrochemistry and the Molecules of Life”</b> · Museum of Astronomy and Related Sciences (MAST)	May 2, 2019
<b>Tutoring: “Physics IV (Optics, Special Relativity)” (bachelor level)</b> · Federal University of Rio de Janeiro (UFRJ)	2015

## Referee Experience

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<b>Examining Board for Bachelor Thesis “Ionic Desorption of Methanol Ice in Different Space Environments” by candidate Tarek Eduardo Haimuri Guimarães</b> · Federal University of Rio de Janeiro	February 23, 2024
<b>Abstract Reviewer for Astrobiology Graduate Conference (AbGradCon) 2023</b> · Online	March, 2023
<b>Examining Board for Bachelor Thesis “Use of Machine Learning for Stellar Spectral Classification” by candidate Julia Camões Alves</b> · Federal University of Rio de Janeiro	August 19, 2022

## Honors and Awards

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<b>Honorable Mention</b> · 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

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<b>Science Outreach Talks and Roundtable Discussions</b> Valongo Observatory (OV/UFRJ), Institute of Physics (IF/UFRJ), “Pint of Science”	2018 – PRESENT
<b>Interviews, Podcasts, and Live Streams</b> “Superinteressante”, “g1”, “CNN Brazil”, “Canal Tech”	2019 – PRESENT
<b>Science Outreach on Social Media</b> Twitter, Instagram, YouTube	2017 – PRESENT
<b>Graduate Students Representative</b> Valongo Observatory, Federal University of Rio de Janeiro	2017 – 2019, 2021 – 2022