

Thiago Ferreira dos Santos

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Last update: July 26, 2025

EDUCATION

Yale University

Ph.D. in Astronomy

08/2023 – Present

New Haven (CT), US

Universidade de São Paulo – Instituto de Astronomia, Geofísica e Ciências Atmosféricas

M.Sc. in Astronomy

08/2021 – 06/2023

São Paulo (SP), Brazil

Dissertation: [Unveiling Planetary Systems in Solar Twins with High-Precision Radial Velocity](#)

Advisor: Jorge Luis Meléndez Moreno, Ph.D.

Universidade Federal de Santa Catarina

B.Sc. in Physics

03/2016 – 08/2021

Florianópolis (SC), Brazil

Advisor: Roberto Kalbusch Saito, Ph.D.

PUBLICATIONS

Full record at [ADS Library](#) | [Google Scholar](#)

Metrics: 90 citations, h-index = 5 (July 2025)

Referred Publications

10. Galarza J. Y., Lorenzo-Oliveira, D., **Ferreira T.**, et al., 2025, ApJ, 983, 70
[HIP 8522: A Puzzling Young Solar Twin with the Lowest Detected Lithium](#)
9. Fermiano, V., et al., (incl. **Ferreira, T.**), 2024, A&A, 690, L7.
[The Young Exoplanetary System TOI-4562: Confirming The Presence of a Third Body in the System](#)
8. **Ferreira, T.**, Rice, M., et al., 2024, AJ, 168, 145.
[SOLES XI. The Aligned Orbit of TOI-2533 b, a Transiting Brown Dwarf Orbiting an F8-type Star](#)
7. Galarza J. Y., **Ferreira T.**, Lorenzo-Oliveira, D., et al., 2024, AJ, 168, 91.
[TOI-1173 A b: The First Inflated Super-Neptune in a Wide Binary System](#)
6. Galarza J. Y., Reggiani H., **Ferreira T.**, et al., 2024, ApJ, 974, 122
[Detailed abundances of the planet-hosting TOI-1173 A/B system: Possible evidence of planet engulfment in a very wide binary](#)
5. Saito R. K., et al., (incl. **Ferreira, T.**), 2024, A&A, 689, A148
[The VISTA Variables in the Vía Láctea eXtended \(VVVX\) ESO public survey: Completion of the observations and legacy](#)
4. **Ferreira T.**, Saito R. K., Minniti D., et al., 2024, MNRAS, 527, 10737.
[A benchmark white dwarf-ultracool dwarf wide field binary](#)
3. Botan, E., et al., (incl. **Ferreira, T.**), 2021, MNRAS, 504, 654.
[Unveiling short-period binaries in the inner VVV bulge.](#)
2. Herpich, F.R., et al., (incl. **Ferreira, T.**), 2021, A&A, 647, A169.
[VVV survey near-infrared colour catalogue of known variable stars](#)
1. **Ferreira, T.**, Saito, R.K., Minniti, D., et al., 2019, MNRAS, 586, 1220.
[The asymptotic evolution of the stellar merger V1309 Sco: a Blue Straggler in the making?](#)

Non-Referred Publications & Conference Proceedings

8. **Ferreira, T.** & Meléndez, J., 2022. Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun. *HIP 102152b: A low-mass planet candidate around an old solar twin*
7. **Ferreira T.S.**, Saito, R.K., & Minniti D., 2021, The Astronomer's Telegram #14626. *VVV near-IR observations of the X-ray transient Swift J174038.1-273712.*
6. **Ferreira T.S.**, Saito, R.K., & Minniti D., 2021, The Astronomer's Telegram #14625. *VVV near-IR observations of V6585 Sgr progenitor.*
5. **Ferreira dos Santos, T.** & Kalbusch Saito, R. 2020, Planets 2020, Ground and Space Observatories 11. *Exoplanetary transits in the Galactic bulge.*
4. **Ferreira, T.**, Saito, R.K., Gran, F. et al. 2018, RNAAS, 2, 39. *VVV Survey Orbital Period Confirmation for the Cataclysmic Variable IGR J17014-4306.*
3. Masetti, N., **Ferreira, T.S.**, Saito, R.K., et al. 2018, The Astronomer's Telegram #11992. *The possible VVV near-infrared counterpart of IGR J17503-2636.*
2. Kammers, R., **Ferreira, T.S.**, Saito, R.K. & Minniti, D. 2018. The Astronomer's Telegram #11365. *The likely progenitor of Nova ASASSN-18ds.*
1. **Ferreira, T.S.** & Saito, R.K. 2017, The Astronomer's Telegram #10780. *The likely progenitor of Nova ASASSN-16ra.*

RESEARCH EXPERIENCE

Pre-Thesis Doctoral Research

08/2023 – Present

Advisors: Earl P. Bellinger, Ph.D., and Malena Rice, Ph.D.

M.Sc. Graduate Research Assistant

08/2021 – 08/2023

Seeking Solar System Analogues

Advisor: Jorge Luis Meléndez Moreno, Ph.D.

Undergraduate Research Assistant

08/2017 – 08/2021

Time-series analysis of near-IR variabilities with the ESO/VVV & VVV-X surveys

Advisor: Roberto Kalbusch Saito, Ph.D.

OBSERVING EXPERIENCE & ACCEPTED PROPOSALS

*** *Observations personally conducted*

GHOST / Gemini South, Cerro Pachón (Chile) – DDT - 5.6 hrs

2025A

MIKE/PFS / Clay–Magellan II, Las Campanas Observatory (Chile) – 2 nights

2025A

Confirming Thick Disc Membership for Known Exoplanets and TESS Objects of Interest

***WINERED / Clay–Magellan II, Las Campanas Observatory (Chile) – 1 night

2025A

Investigating Atmospheric Outflows in a Neptunian-Desert Planet Using He III $\lambda 10\,833\text{ Å}$

MIKE / Clay–Magellan II, Las Campanas Observatory (Chile) – 2 nights

2024B

Correlated Abundances of Exoplanets and Their Host Stars? Constraints from Polluted White Dwarfs in Stellar Binaries

MIKE / Clay–Magellan II, Las Campanas Observatory (Chile) – 4 nights

2024B

Exploring the Star-Planet Connection with Host Solar-Type Stars

***HARPS / ESO 3.6-m, La Silla Observatory (Chile) – 6 nights

2023A

How rare are analogues of the Solar System?

TEACHING APPOINTMENTS

ASTR 220 - Galaxies and Cosmology, Yale University

Instructor: Robert Zinn

Jan 2025 - May 2025

ASTR 110 - Planets and Stars, Yale University

Instructor: Michael Faison

Aug 2024 - Dec 2024

AGA 0502 - Planets and Planetary Systems, IAG/USP

Instructor: Jorge Meléndez

Aug 2022 - Dec 2022

FELLOWSHIPS, AWARDS & GRANTS

- GSAS Yale Graduate Fellowship Aug 2023 – Present
- Boris Garfinkel Prize Fellowship in Astronomy Aug 2023
- CAPES M.Sc. Research Fellowship, IAG/USP, Brazil Aug 2021 – Jul 2023
- exoLaTam 2022 Travel Award Dec 2022
- Teaching Improvement Program, IAG/USP Aug 2022 – Dec 2022
- ESO/ALMA Planets2020 Workshop Travel Award Mar 2020
- CNPq Undergraduate Research Fellowship, Department of Physics, UFSC, Brazil 2017 – 2021

CONFERENCE PRESENTATIONS

15. 9th TESS/16th Kepler Asteroseismic Science Consortium Workshop – Vienna, Austria Jul 2025
On the Structure and Oscillations of the First Stars [Poster]
14. exoLaTam 22 – Santiago, Chile Dec 2022
HIP 102152b: A Low-Mass Planet Candidate Around an Old Solar Twin [Talk].
13. XLV Annual Meeting of the Brazilian Astronomical Society - Virtual Oct 2022
HIP 102152b: A Low-Mass Planet Candidate Around an Old Solar Twin [Poster & Talk].
12. Cool Stars 21 - Virtual Jul 2022
HIP 102152b: A Low-Mass Planet Candidate Around an Old Solar Twin [Poster].
11. 31° Seminário de Iniciação Científica, UFSC - Virtual Jul 2021
Studies of Stellar Astrophysics and Exoplanets in the Central Region of the Milky Way [Talk].
10. Exoplanets III - Virtual Jul 2021
A Box-Fitting Implementation for the Transit Method Detection of Exoplanets [Poster].
9. Sagan Exoplanet Summer Workshop - Virtual Jul 2021
Time-Series Analysis of Near-IR Variabilities on VVV M Dwarf Stars [Poster].
8. 30° Seminário de Iniciação Científica, UFSC - Virtual Oct 2020
Transiting Extrasolar Planets Orbiting Red Dwarf Stars Towards the Galactic Bulge [Talk].
7. ALMA Planets2020 Workshop – Santiago, Chile Mar 2020
Exoplanetary Transits in the Galactic Bulge [Poster].
6. VIII PPGFSC/UFSC Meeting – Florianópolis, Brazil Feb 2020
The Asymptotic Evolution of the Blue Straggler V1309 Sco [Poster].
5. 29° Seminário de Iniciação Científica, UFSC - Virtual Oct 2019
Stellar Variability Towards the Central Region of the Milky Way with the VVV/VVV-X Surveys [Talk].

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| 4. EWASS 2019 - European Astronomical Society
Infrared Counterparts of Gaia Alerts (Ivanov+ incl. Ferreira, T.) [Poster]. | Jun 2019 |
| 3. 28° Seminário de Iniciação Científica, UFSC - Virtual
Stellar Variability Towards the Central Region of the Milky Way with the VVV/VVV-X Surveys [Talk]. | Oct 2018 |
| 2. VVV & VVV-X Science Workshop – Florianópolis, Brazil
On the Photometric Study of the Cataclysmic Variable IGR J17014-4306 [Poster]. | Apr 2018 |
| 1. VI PPGFSC/UFSC Meeting – Florianópolis, Brazil
Stellar Variability Towards the Central Region of the Milky Way with the VVV/VVV-X Surveys [Poster]. | Feb 2018 |

WORKSHOPS AND ADVANCED SCHOOLS ATTENDED

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| • MESA (Modules for Experiments in Stellar Astrophysics) Summer School – Leuven, Belgium | Jul 2025 |
| • Yale Tinsley Workshop – New Haven, USA | Oct 2024 |
| • New York Area Exoplanets Meeting – New York, USA | May 2024 |
| • exoLaTam 22 – Santiago, Chile | Dec 2022 |
| • ESO The Star-Planet Connection Workshop - Virtual | Oct 2021 |
| • XIII CBPF School - Virtual | Aug 2021 |
| • ZTF Summer School on Variable Stars - Virtual | Aug 2021 |
| • Sagan Exoplanet Summer Workshop - Circumstellar Disks and Young Planets – Virtual | Jul 2021 |

ACADEMIC REFERENCES

Jorge Luis Meléndez Moreno, PhD (MSc Advisor)

Departamento de Astronomia/IAG, Universidade de São Paulo – Brazil

jorge.melendez@iag.usp.br

Roberto Kalbusch Saito, PhD (Undergraduate Advisor)

Departamento de Física, Universidade Federal de Santa Catarina – Brazil

robsaito@gmail.com

Dante Minniti, PhD

Instituto de Astrofísica, Facultad de Ciencias Exactas, Universidad Andres Bello – Chile
Vatican Observatory, I-00120 Vatican City State, Italy

vvvdante@gmail.com

COMPLEMENTARY INFORMATION

Languages

Portuguese (native), **English** (fluent), **Spanish** (basic).

Other

- Programming: \LaTeX , PYTHON (9+ years); Little experience with C, R, JAVA, BASH.
 - Databases & Softwares: [VISTA/ESO](#) Science Archive, TOPCAT, VIZIER, IRAF/DS9, VOSA, MESA+GYRE, etc.
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