Thiago Ferreira dos Santos

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EDUCATION

M.Sc. in Astronomy

Yale University 08/2023 – Present

Ph.D. in Astronomy

New Haven (CT), US

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

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

03/2016 - 08/2021

B.Sc. in Physics Florianópolis (SC), Brazil

Advisor: Roberto Kalbusch Saito, Ph.D.

Publications

Full record at ADS Library

Referred Publications

- 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

Department of Astronomy, Yale University

Advisors:

Earl P. Bellinger, Ph.D. (Evolution of Low-Mass Population III stars), and Malena Rice, Ph.D. (Formation of Brown Dwarfs)

M.Sc. Graduate Research Assistant

08/2021 - 08/2023

Seeking Solar System Analogues

Abstract: We aim to elucidate the uniqueness of the Solar System by characterising exoplanetary systems with Jupiter analogues through high-precision ESO/HARPS radial velocity observations of solar twins. Moreover, we study the possible connection between those planets and the chemical compositions of their host stars.

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

Abstract: We examined relatively small photometric variations in the near-IR Ks-band light curves of the ESO/VISTA Variables in the Via Láctea (VVV) & VVV eXtended (VVV-X) surveys by implementing the Lomb-Scargle method for characteristically sine-like signals of variable stars, and the Box Least-Squares method to detect and model exoplanetary transit candidates on M dwarf stars, primarily selected based on VVV photometric and Gaia DR3 astrometric datasets.

Advisor: Roberto Kalbusch Saito, Ph.D.

OBSERVING EXPERIENCE & ACCEPTED PROPOSALS

*** Observations personally conducted

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

2025B

Confirming the First Exoplanet Around a Milky Way Halo Star

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

2025A

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TEACHING APPOINTMENTS ASTR 220 - Galaxies and Cosmology, Yale University Instructor: Robert Zinn ASTR 110 - Planets and Stars, Yale University Instructor: Michael Faison AGA 0502 - Planets and Planetary Systems, IAG/USP Instructor: Jorge Meléndez FELLOWSHIPS, AWARDS & GRANTS GSAS Yale Graduate Fellowship Aug 2023 - Present Boris Garfinkel Prize Fellowship Aug 2023 - Present CAPES MSc. Research Fellowship, IAG/USP, Brazil CAPES MSc. Research Fellowship, IAG/USP, Brazil CAPES MSc. Research Fellowship Aug 2023 - Present Boris Garfinkel Prize Fellowship Aug 2023 - Present Boris Garfinkel Prize Fellowship Aug 2023 - Present CAPES MSc. Research Fellowship, IAG/USP, Brazil CAPES MSc. Research Fellowship, IAG/USP, Brazil COAPER MSc. Research Fellowship, IAG/USP Teaching Improvement Program, IAG/USP CENPQ Undergraduate Research Fellowship, Department of Physics, UFSC, Brazil CONPERENCE PRESENTATIONS 14. exol.aTam 20.2 Santiago, Chile HIP 102152b: A Low-Mass Planet Candidate Around an Old Solar Twin [Talk]. 15. XLV Annual Meeting of the Brazilian Astronomical Society - Virtual HIP 102152b: A Low-Mass Planet Candidate Around an Old Solar Twin [Poster & Flash Talk]. 16. Exoplanets III - Virtual HIP 102152b: A Low-Mass Planet Candidate Around an Old Solar Twin [Poster & Flash Talk]. 17. ALMA Planets/2020 Workshop - Virtual Time-Series Analysis of Near-IR Variabilities on VVV M Dwarf Stars [Poster & Flash Talk]. 18. 30° Seminário de Iniciação Científica, UFSC - Virtual Time-Series Analysis of Near-IR Variabilities on VVV M Dwarf Stars [Poster & Flash Talk]. 18. 30° Seminário de Iniciação Científica, UFSC - Virtual Time-Series Analysis of Near-IR Variabilities on VVV M Dwarf Stars [Poster & Flash Talk]. 19. 4LMA Planets/2020 Workshop, Santiago, Chile Mar 2020		2024B
ASTR 220 - Galaxies and Cosmology, Yale University Instructor: Robert Zinn ASTR 110 - Planets and Stars, Yale University AGA 0502 - Planets and Planetary Systems, IAG/USP Instructor: Michael Faison AGA 0502 - Planets and Planetary Systems, IAG/USP Instructor: Jorge Meléndez FELLOWSHIPS, AWARDS & GRANTS GSAS Yale Graduate Fellowship Boris Garfinkel Prize Fellowship Astronomy Boris Garfinkel Prize Fellowship, IAG/USP, Brazil CAPES M.Sc. Research Fellowship, IAG/USP, Brazil CAPES M.Sc. Research Fellowship, IAG/USP, Brazil CAPES M.Sc. Research Fellowship, IAG/USP Teaching Improvement Program, IAG/USP Transition Improvement Program, IAG/USP Timplementation of the Transit Method Detection of Exoplanets [Poster & Flash Talk]. 10. Exoplanets III - Virtual A Box-Fitting Implementation for the Transit Method Detection of Exoplanets [Poster]. 9. Sagam Exoplanet Summer Workshop - Virtual Time-Series Analysis of Near-IR Variabilities on VVV M Dwarf Stars [Poster & Flash Talk]. 8. 30° Seminário de Iniciação Científica, UFSC - Virtual Time-Series Analysis of Near-IR Variabilities on VVV M Dwarf Stars [Poster & Flash Talk]. 8. 30° Seminário de Iniciação Científica, UFSC - Virtual Time-Series Analysi	• • • • • •	2023A
### ASTR 110 - Planets and Stars, Yale University ### Aug 2024 - Dec 2024 ### Instructor: Michael Faison ### AGA 0502 - Planets and Planetary Systems, IAG/USP ### Aug 2022 - Dec 2022 ### Instructor: Jorge Meléndez #### FELLOWSHIPS, AWARDS & GRANTS GSAS Yale Graduate Fellowship	TEACHING APPOINTMENTS	
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	7. ALMA Planets2020 Workshop, Santiago, Chile Exoplanetary Transits in the Galactic Bulge [Poster & Flash Talk].	Mar 2020

6.	VIII PPGFSC/UFSC Meeting, Florianópolis, Brazil The Asymptotic Evolution of the Blue Straggler V1309 Sco [Poster].	Feb 2020
5.	29° Seminário de Iniciação Científica, UFSC - Virtual Stellar Variability Towards the Central Region of the Milky Way with the VVV/VVV-X Surveys [Talk].	Oct 2019
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 & Flash Talk].	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

• 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)

jorge.melendez@iag.usp.br

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

Roberto Kalbusch Saito, PhD (Undergrad Advisor)

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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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