last update: June 23, 2025 (click here for the live version)

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# Personal information

Full name Vinicius [v-knee-see-uh-s] Moris Placco Portuguese (native), English (fluent), Languages

Spanish (intermediate), Italian (basic)

Address 950 N. Cherry Ave.

Tucson, AZ 85719, USA

Phone +1 (520) 318-8000 / 318-8566

Website http://vmplacco.github.io/

vinicius.placco@noirlab.edu | vmplacco@gmail.com e-mail

# **Employment / Appointments**

2024–	US National Gemini Office Head – Community Science & Data Center U.S. National Science Foundation National Optical-Infrared Astronomy Research Laboratory
2022–	Associate Astronomer – Community Science & Data Center U.S. National Science Foundation National Optical-Infrared Astronomy Research Laboratory
2023–2024	US National Gemini Office Acting Head – Community Science & Data Center U.S. National Science Foundation National Optical-Infrared Astronomy Research Laboratory
2020–2022	Associate Scientist – Community Science & Data Center U.S. National Science Foundation National Optical-Infrared Astronomy Research Laboratory
2015–2020	Research Assistant Professor – Department of Physics University of Notre Dame
2018–2020	Faculty Fellow – Liu Institute for Asia and Asian Studies University of Notre Dame
2014–2015	Science Fellow Gemini Observatory – Northern Operations Center Association of Universities for Research in Astronomy
2013–2014	Postdoctoral Fellow National Optical Astronomy Observatory Association of Universities for Research in Astronomy
2010–2013	Postdoctoral Fellow Instituto de Astronomia, Geofísica e Ciências Atmosféricas Universidade de São Paulo
2010–2011	External Consultant - Data Science and Statistics Suzuki Veículos do Brasil S/A
2010–2010	Freelance Translator - Astronomy Brasil Magazine Ediouro Duetto Editorial

### Education

2007–2010 Doctorate degree in Astronomy

Search for very metal-poor stars based on carbon over-abundance

Instituto de Astronomia, Geofísica e Ciências Atmosféricas

Universidade de São Paulo

2005–2007 Master's degree in Astronomy

Abundance patterns among very metal-poor stars in the Galaxy: a statistical approach

Instituto de Astronomia, Geofísica e Ciências Atmosféricas

Universidade de São Paulo

2001–2005 Bachelor's degree in Physics (concentration: Astronomy)

Instituto de Física

Universidade de São Paulo

### **Awards**

2024 Outstanding Achievement Award – Science

U.S. National Science Foundation National Optical-Infrared Astronomy Research Laboratory

Association of Universities for Research in Astronomy

2011 Featured Astronomy thesis of the year 2010

Instituto de Astronomia, Geofísica e Ciências Atmosféricas

Universidade de São Paulo

2005 Best Astronomy undergraduate project

Instituto de Astronomia, Geofísica e Ciências Atmosféricas

Universidade de São Paulo

# **Observatory Experience**

### Leardership roles/Service

Hubble Space Telescope External Proposal reviewer
Member of the J-PAS Survey Science Committee (Javalambre Physics of the Accelerating Universe Survey)
Co-coordinator of the Resolved Stellar Population Working Group of the J-PAS Survey
Member of the Maunakea Spectroscopic Explorer (MSE) Science Team
Subaru Telescope Proposal reviewer – category group: Normal Stars, Metal-Poor Stars
Member of the S-PLUS Advisory Committee (Southern Photometric Local Universe Survey)
Principal Investigator of the S-PLUS Short Survey
Member of the NSF NOIRLab Time Allocation Committee - Galactic Panel 2
US representative for the Gemini Observatory Users Committee
Member of the NOAO Time Allocation Committee - Galactic Panel 2
Member of the Gemini OCS Upgrades Working Group
US Extremely Large Telescope Program – First Stars Key Science Project

### Operations and Instrument/User Support

2020-present NSF NOIRLab: Community Science & Data Center - US National Gemini Office

Product development for the Gemini user community:

Twitter account bots – daily completion, weekly paper, monthly completion, other metrics GitHub repositories – DRAGONS Imaging tutorials, IRAF Spectroscopy tutorials, users dashboard

Co-organization of AAS Splinter Meetings

Responsible for managing the NOIRLab IRAF modernization project

Migration and maintenance of the US NGO Portal Migration and maintenance of the GMOS Cookbook Migration and maintenance of the XDGNIRS Pipeline

Gemini HelpDesk – Responsible for selected Tiers 2 and 3 inquiries

2021-present NSF NOIRLab: Communications, Education & Engagement

Supported the migration of the NOAO Science website to the new NOIRLab Science website

Developed, revised, and curated content for the NOIRLab Science website

Serve as a liaison between RSS and CEE

Support science staff in adding/editing content on the science webpages

Responding/routing science inquiries from usercomms@noirlab.edu and info@noirlab.edu

Responsible for the curation of the NOIRLab Capabilities Brochure

2021–2022 **NSF NOIRLab**: Gemini Observatory – Science User Support Department

Part of the Science Verification effort for the DRAGONS spectroscopic routines

Early testing of the quick-look and interactive tools for DRAGONS Performance comparison between Gemini/IRAF and DRAGONS packages

2014–2015 **Gemini-North**: Operations

Support Scientist for Phase II programs Backup support for instrument teams

Interface between observatory and visitors (staff, scientists, and others)

Interactions with astronomers, engineers, IT personnel, and facilities staff

Community support (help-desk and troubleshooting) Write/edit/update internal and external webpages

Weekly operations meetings

Queue observer Data reductions

2014–2015 Gemini-North: GMOS Instrument Team

Instrument performance monitoring pipeline

Throughput characterization

Commissioning of AO capabilities

Write/edit/update internal and external instrument webpages

Data quality assessment

Commissioning of Hamamatsu CCD at GMOS-S

2014–2015 **Gemini-North**: GRACES Instrument Team

Commissioning of the instrument

Developed early data-reduction pipeline

Write/edit/update internal and external instrument webpages Developed exposure time calculator (GRACES ITC v0.1 Beta)

2008–2012 **SOAR Telescope**: remote observing station – University of São Paulo

Responsible for operations and maintenance

Develop data reduction tools

Edit/write manuals and data analysis cookbooks

User support and troubleshooting

Configure, quote, and purchase new workstations and teleconference hardware Work with staff and IT personel to ensure access to buildings and computers Support daytime calibrations / nighttime observations

## **Observing Experience**

Period	Telescope	# of nights	instrument	mode
2019-present	CTIO/Blanco	16	COSMOS	remote
2011-present	ESO/NTT	12	EFOSC2	visitor
2008-present	SOAR	40+	Goodman OSIRIS	remote
2013–2018	KPNO/Mayall	20+	RCSPEC KOSMOS	visitor/remote
2014–2015	Gemini North	12	GMOS GRACES GNIRS NIRI NIFS	queue observer
2014–2015	Gemini South	2	GMOS	remote
2013	McDonald 2.1m	4	ES2 Spectrometer	visitor

# Research Experience

### **Funding**

### Current

2023-2026 Hubble Space Telescope (Co-I)

Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Space Telescope Science Institute (USD 2,873)

### Past (Total: USD 470,229)

2020–2022 Hubble Space Telescope (Co-I)

Testing r-process nucleosynthesis models with two r-process enhanced stars

Space Telescope Science Institute (USD 35,000)

2019–2021 Hubble Space Telescope (Co-PI)

HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-process event

Space Telescope Science Institute (USD 60,732)

2018–2020 Hubble Space Telescope (Co-PI)

The Unexplored Domains of the s-Process

Space Telescope Science Institute (USD 119,104)

2018 Liu Institute for Asia & Asian Studies (PI)

Stellar Archaeology as a Time Machine to the First Stars

University of Notre Dame (USD 600 - Travel support for conference)

2018 Liu Institute for Asia & Asian Studies (PI)

TDLI Workshop on The Exploding Universe

University of Notre Dame (USD 2,600 - Travel support for conference)

2015–2017 Hubble Space Telescope (Co-I)

The First Detections of Phosphorus, Sulphur, and Zinc in a Bona-Fide Second-Generation Star

Space Telescope Science Institute (USD 85,293)

2016–2017 Faculty Research Support Program Initiation Grant (PI)

Identification of CEMP Stars from S-PLUS Photometry using Artificial Neural Networks

University of Notre Dame (USD 10,000)

2013–2014 FAPESP (State of São Paulo Research Foundation) – Postdoctorate

(re)discovery and analysis of metal-poor stars in the Milky Way

National Optical Astronomy Observatory (USD 71,400)

2010–2013 FAPESP (State of São Paulo Research Foundation) – Postdoctorate

The Milky Way Halo revisited

Universidade de São Paulo (USD 85,500)

# **Fellowships**

2007–2010	Doctorate – FAPESP (07/04356-3) – Universidade de São Paulo Search for very metal-poor stars based on carbon over-abundance
2005–2007	Master's – FAPESP (05/01023-8) – Universidade de São Paulo Abundance patterns among very metal-poor stars in the Galaxy: a statistical approach
2004–2005	Undergraduate research project – CNPq/PIBIC – Universidade de São Paulo Descoberta e Análise de Objetos com Linhas em Emissão no Survey HK
2002–2004	Undergraduate research project – FAPESP (02/04704-8) – Universidade de São Paulo Construção de câmara de alvo gasoso para produção de feixes radioativos

# Visiting Faculty/Postdoc/Graduate Student

Visiting Faculty/Postdoc/Graduate Student		
2023/2022	Universidade de São Paulo Instituto de Astronomia, Geofísica e Ciências Atmosféricas Funding: NOIRLab, USP/FAPESP (Brazil)	
2020/2018	Universidade de São Paulo Instituto de Astronomia, Geofísica e Ciências Atmosféricas Funding: USP/FAPESP (Brazil), JINA-CEE	
2018	Chungnam National University Department of Astronomy & Space Science Funding: CNU (Republic of Korea)	
2014	University of Notre Dame Department of Physics Funding: Gemini Observatory and JINA (Joint Institute for Nuclear Asthophysics)	
2014/2012	Massachusetts Institute of Technology Kavli Institute for Astrophysics and Space Research Funding: Gemini Observatory, FAPESP (The State of São Paulo Research Foundation – Brazil)	
2013/2012	National Optical Astronomy Observatory Kitt Peak National Observatory Funding: FAPESP (Brazil)	
2013	New Mexico State University Department of Astronomy Funding: FAPESP (Brazil)	
2010/2008	Universität Heidelberg Zentrum für Astronomie Funding: Universität Heidelberg (Germany), FAPESP, PROEX (Brazil)	
2010/2009 2007	Michigan State University Physics and Astronomy Department Funding: JINA (USA), FAPESP, PROEX (Brazil)	

### Telescope time allocations

Approved observing projects: 197 Total awarded: 7080.96 hours

### Principal Investigator

Approved observing projects: 52 Total awarded: 1783.30 hours

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52. 2025A - Gemini South - GS-2025A-Q-408 (Band 4): 11.50 hours
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- 51. 2023B Gemini South GS-2023B-FT-301 (Fast Turnaround): 2.25 hours
- 50. 2023A Gemini South GS-2023A-SV-101 (Band 1): 4.0 hours
- 49. 2023A Gemini South GS-2023A-Q-407 (Band 4): 40.0 hours
- 48. 2022A Gemini South GS-2022A-Q-406 (Band 4): 30.0 hours
- 47. 2022A CTIO Blanco 2022A-210002: 5.0 nights
- 46. 2021A Gemini South GS-2021A-Q-419 (Band 4): 40.0 hours
- 45. 2021A CTIO Blanco 2021A-0000: 5.0 nights
- 44. 2020A CTIO Blanco 2020A-0032: 5.0 nights
- 43. 2019B CTIO Blanco 2019B-0069: 5.0 nights
- 42. 2019A Gemini South GS-2019A-Q-408 (Band 4): 21.0 hours
- 41. 2019A Gemini North GN-2019A-Q-402 (Band 4): 27.0 hours
- 40. 2018B Gemini North GN-2018B-Q-403 (Band 4): 20.0 hours
- 39. 2018B Gemini South GS-2018B-Q-402 (Band 4): 20.0 hours
- 38. 2018A Gemini South GS-2018A-Q-402 (Band 4): 30.0 hours
- 37. 2017B Gemini North GN-2017B-Q-84 (Band 4): 39.0 hours
- 36. 2017A Gemini South GS-2017A-FT-3: 5.5 hours
- 35. 2017A KPNO Mayall 2017A-0295: 7.0 nights
- 34. 2016B Gemini North GN-2016B-Q-85 (Band 4): 50.0 hours
- 33. 2016B Gemini South GS-2016B-Q-86 (Band 4): 50.0 hours
- 32. 2016A Gemini South GS-2016A-Q-107 (Band 4): 50.0 hours
- 31. 2015B Gemini North GN-2015B-Q-100 (Band 4): 30.0 hours
- 30. 2015B Gemini South GS-2015B-Q-104 (Band 4): 50.0 hours
- 29. 2015B ESO/NTT 096.D-0018(A): 5.0 nights
- 28. 2015A Gemini North GN-2015A-Q-401 (Band 4): 30.0 hours
- 27. 2015A Gemini South GS-2015A-Q-205 (Band 4): 50.0 hours
- 26. 2015A ESO/NTT 095.D-0202(A): 4.0 nights
- 25. 2015A KPNO Mayall 2015A-0071: 6.0 nights
- 24. 2015A SOAR 2015A-0071: 5.0 nights
- 23. 2014B Gemini South GS-2014B-Q-85 (Band 4): 30.0 hours
- 22. 2014B Gemini North GN-2014B-Q-102 (Band 4): 30.0 hours
- 21. 2014A Gemini South GS-2014A-Q-92 (Band 4): 33.3 hours
- 20. 2014A Gemini North GN-2014A-Q-101 (Band 3): 16.7 hours

<sup>\*</sup>does not include time allocated through university partnerships

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19. 2014A - Gemini North - GN-2014A-Q-105 (Band 4): 33.3 hours
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- 18. 2013B Gemini South GS-2013B-Q-89 (Band 4): 25.0 hours
- 17. 2013B Gemini North GN-2013B-Q-105 (Band 4): 25.0 hours
- 16. 2013B SOAR SO2013B-001: 30.0 hours
- 15. 2013A SOAR SO2013A-018: 34.0 hours
- 14. 2012B Gemini South GS-2012B-Q-65 (Band 3): 10.0 hours queue
- 13. 2012B Gemini South GS-2012B-Q-84 (Band 4): 70.0 hours queue
- 12. 2012B Gemini North GN-2012B-Q-284 (Band 4): 70.0 hours queue
- 11. 2012B ESO/NTT 090.D-0275(A): 4 nights classical
- 10. 2012B SOAR SO2012B-001: 24.0 hours remote
- 9. 2012A Gemini South GS-2012A-Q-76 (Band 3): 6.0 hours queue
- 8. 2012A ESO/NTT 089.D-0331(A): 4 nights classical
- 7. 2012A SOAR SO2012A-003: 24.0 hours remote
- 6. 2011B ESO/NTT 088.D-0344(A): 4 nights classical
- 5. 2011B SOAR SO2011B-002: 24.0 hours remote
- 4. 2011A Gemini South GS-2011A-Q-86 (Band 4): 4.0 hours queue
- 3. 2011A Gemini North GN-2011A-Q-88 (Band 3): 1.3 hours queue
- 2. 2011A Gemini North GN-2011A-Q-122 (Band 4): 6.7 hours queue
- 1. 2011A SOAR SO2011A-010: 17.0 hours remote

### Co-Investigator

# Approved observing projects: 145 Total awarded: 5297.66 hours

- 145. 2025A Gemini South GS-2025A-Q-114 (Band 1 GT): 50.00 hours
- 144. 2025A Gemini South GS-2025A-Q-131 (Band 1): 2.70 hours
- 143. 2025A Gemini South GS-2025A-Q-226 (Band 2): 3.00 hours
- 142. 2025A Gemini South GS-2025A-Q-327 (Band 3): 11.00 hours
- 141. 2024B Gemini South GS-2024B-Q-416 (Band 4): 20.00 hours
- 140. 2024B Gemini South GS-2024B-Q-114 (Band 1 GT): 50.00 hours
- 139. 2024B Gemini South GS-2024B-Q-321 (Band 3): 8.00 hours
- 138. 2024A Gemini South GS-2024A-FT-115 (Fast Turnaround): 5.44 hours
- 137. 2024A CTIO/Blanco 2024A-646244 (survey): 85.00 hours
- 136. 2024A Gemini South GS-2024A-Q-109 (Band 1): 3.80 hours
- 135. 2024A Gemini South GS-2024A-Q-112 (Band 1 GT): 50.00 hours
- 134. 2024A Gemini South GS-2024A-Q-130 (Band 1): 13.00 hours
- 133. 2024A Gemini South GS-2024A-Q-206 (Band 2): 21.20 hours
- 132. 2024A Gemini South GS-2024A-Q-225 (Band 2): 16.00 hours
- 131. 2024A Gemini South GS-2024A-Q-233 (Band 2): 1.10 hours
- 130. 2024A Gemini South GS-2024A-Q-324 (Band 3): 4.50 hours
- 129. 2024A Gemini South GS-2024A-Q-333 (Band 3): 3.41 hours

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128. 2023B - CTIO/Blanco - 2023B-646244 (survey): 65.00 hours
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- 127. 2023B Southern African Large Telescope 2023-2-SCI-005: 14.5 hours
- 126. 2023B Gemini South GS-2023B-FT-210 (Fast Turnaround): 6.84 hours
- 125. 2023B Gemini South GS-2023B-Q-107 (Band 1): 20.00 hours
- 124. 2023B Gemini South GS-2023B-Q-309 (Band 3): 4.09 hours
- 123. 2023B Gemini South GS-2023B-Q-322 (Band 3): 5.06 hours
- 122. 2023A Southern African Large Telescope 2023-1-SCI-007: 8.85 hours
- 121. 2023A Gemini South GS-2023A-Q-412 (Band 4): 42.00 hours
- 120. 2022B Gemini North GN-2022B-Q-211 (Band 2): 11.40 hours
- 119. 2022B Gemini South GS-2022B-Q-227 (Band 2): 7.10 hours
- 118. 2022B Gemini South GS-2022B-Q-318 (Band 3): 10.96 hours
- 117. 2022B Southern African Large Telescope 2022-2-SCI-011: 20.0 hours
- 116. 2022A SOAR 2022A-001: 8 hours
- 115. 2022A SOAR 2022A-006: 40 hours
- 114. 2022A Subaru KR-2022A-008: 10.00 hours
- 113. 2022A Gemini South GS-2022A-Q-128 (Band 1): 1.20 hours
- 112. 2022A Gemini South GS-2022A-Q-132 (Band 1): 4.60 hours
- 111. 2022A Gemini South GS-2022A-Q-234 (Band 2): 3.10 hours
- 110. 2022A Gemini South GS-2022A-Q-233 (Band 2): 11.60 hours
- 109. 2022A Gemini South GS-2022A-Q-238 (Band 2): 4.00 hours
- 108. 2022A Gemini South GS-2022A-Q-322 (Band 3): 5.20 hours
- 107. 2022A Gemini South GS-2022A-Q-323 (Band 3): 2.20 hours
- 106. 2022A Gemini South GS-2022A-Q-325 (Band 3): 9.40 hours
- 105. 2021B Gemini North GN-2021B-Q-111 (Band 1): 9.70 hours
- 104. 2021B Gemini South GS-2021B-Q-127 (Band 1): 2.20 hours
- 103. 2021B Gemini South GS-2021B-Q-232 (Band 2): 6.10 hours
- 102. 2021B Gemini South GS-2021B-Q-130 (Band 1): 3.60 hours
- 101. 2021B Gemini South GS-2021B-Q-321 (Band 3): 16.60 hours
- 100. 2021A Gemini North GN-2021A-FT-209 (Band 1): 2.20 hours
- 99. 2021A Gemini North GN-2021A-FT-205 (Band 1): 3.00 hours
- 98. 2021A Gemini North GN-2021A-Q-111 (Band 1): 14.20 hours
- 97. 2021A Gemini South GS-2021A-Q-230 (Band 2): 10.00 hours
- 96. 2021A SOAR 2021A-007: 40 hours
- 95. 2020A McDonald 2.7m McD20-1-2.7-7: 7.0 nights
- 94. 2019B Gemini North GN-2019B-Q-403 (Band 4): 9.40 hours
- 93. 2019B McDonald 2.7m McD19-3-2.7-1: 7.0 nights
- 92. 2019B SOAR 2019B-0013: 26 hours
- 91. 2019A Gemini North GN-2019A-Q-309 (Band 3): 22.73 hours
- 90. 2019A McDonald 2.7m McD19-1-2.7-3: 17.0 nights
- 89. 2019A McDonald 2.1m McD19-1-2.7-1: 5.0 nights

- 88. 2018B Gemini North GN-2018B-Q-122 (Band 1): 10.0 hours
- 87. 2018B Gemini North GN-2018B-Q-316 (Band 3): 25.00 hours
- 86. 2018B Gemini South GS-2018B-Q-315 (Band 3): 47.27 hours
- 85. 2018B SOAR 2018B-0010: 26 hours
- 84. 2018A Gemini North GN-2018A-Q-403 (Band 4): 89.10 hours
- 83. 2018A Gemini South GS-2018A-Q-406 (Band 4): 7.90 hours
- 82. 2018A LCO/Magellan Telescope Carnegie Time: 2 nights
- 81. 2018A LCO/duPont Telescope Carnegie Time: 18 nights
- 80. 2018A Apache Point Observatory UW08: 5.0 nights
- 79. 2018A LCO/Magellan Telescope Chilean Time: 3 nights
- 78. 2018A SOAR 2018A-0021: 36 hours
- 77. 2018A McDonald 2.7m McD18-1-2.7-3: 7.0 nights
- 76. 2017B LCO/Magellan Telescope Michigan Time: 2.5 nights
- 75. 2017B Gemini North GN-2017B-Q-18 (Band 1): 10.2 hours
- 74. 2017B Gemini North GN-2017B-FT-7: 6.28 hours
- 73. 2017B Gemini North GN-2017B-Q-75 (Band 3): 41.82 hours
- 72. 2017B Gemini North GN-2017B-Q-79 (Band 4): 63.64 hours
- 71. 2017B Gemini South GS-2017B-Q-75 (Band 3): 20.91 hours
- 70. 2017B Gemini South GS-2017B-Q-84 (Band 4): 107.82 hours
- 69. 2017A Southern African Large Telescope 2017-1-MLT-012: 55.6 hours
- 68. 2017A Gemini North GN-2017A-Q-82 (Band 3): 202.0 hours
- 67. 2017A Gemini South GS-2017A-Q-86 (Band 3): 142.5 hours
- 66. 2017A ESO/NTT 099.D-0428: 5.0 nights
- 65. 2017A LCO/Magellan Telescope Carnegie Time: 3 nights
- 64. 2017A LCO/duPont Telescope Carnegie Time: 19 nights
- 63. 2017A SOAR 2017A-0016: 40 hours
- 62. 2016B Gemini North GN-2016B-Q-77 (Band 3): 6.4 hours
- 61. 2016B Gemini South GS-2016B-Q-81 (Band 3): 32.3 hours
- 60. 2016B ESO/NTT 098.D-0434: 4.0 nights
- 59. 2016B Hubble Space Telescope Cycle 24 HST-GO-14765: 40 orbits
- 58. 2016B LCO/duPont Telescope Carnegie Time: 5 nights
- 57. 2016A ESO/NTT 097.D-0196: 7.0 nights
- 56. 2016A Apache Point Observatory UW07: 2.5 nights
- 55. 2016A Gemini North GN-2016A-Q-17 (Band 1): 9.8 hours
- 54. 2016A Gemini North GN-2016A-Q-75 (Band 3): 79.4 hours
- 53. 2016A Gemini South GS-2016A-Q-76 (Band 3): 74.0 hours
- 52. 2016A SOAR 2016A-0019: 4.0 nights
- 51. 2015B Southern African Large Telescope 2015-2-SCI-056: 117.8 hours
- 50. 2015B Hubble Space Telescope Cycle 23 HST-GO-14231: 18 orbits
- 49. 2015B Gemini North GN-2015B-Q-86 (Band 3): 26.5 hours

- 48. 2015B Gemini South GS-2015B-Q-71 (Band 3): 42.9 hours
- 47. 2015B SOAR 2015B-0020: 5.0 nights
- 46. 2015A ESO/VLT 095.D-0504(A): 30.0 hours
- 45. 2015A Gemini North GN-2015A-Q-76 (Band 3): 45.8 hours
- 44. 2015A Gemini South GS-2015A-Q-77 (Band 3): 42.8 hours
- 43. 2015A Gemini South GS-2015A-Q-92 (Band 4): 26.0 hours
- 42. 2014B ESO/VLT DDT293.D-5036(A): 2.4 hours
- 41. 2014B Gemini South GS-2014B-Q-67 (Band 3): 55.0 hours
- 40. 2014B Gemini North GN-2014B-Q-85 (Band 3): 55.0 hours
- 39. 2014B KPNO Mayall 2014B-0231: 3.0 nights
- 38. 2014B SOAR 2014B-0231: 3.0 nights
- 37. 2014A Gemini South GS-2014A-Q-88 (Band 3): 66.7 hours
- 36. 2014A KPNO Mayall 2014A-0323: 8.0 nights
- 35. 2013B KPNO Mayall 2013B-0046: 6.5 nights
- 34. 2013B Gemini South GS-2013B-Q-75 (Band 3): 50.0 hours
- 33. 2013B Gemini North GN-2013B-Q-81 (Band 3): 50.0 hours
- 32. 2013B SOAR SO2013B-S102: 17.0 hours (long term)
- 31. 2013B ESO/NTT 092.D-0308(A): 6 nights
- 30. 2013B McDonald 2.1m McD13-3: 5 nights
- 29. 2013B LNA/Brazil 2013B-P012: 6 nights
- 28. 2013B NOT (Nordic Optical Telescope) 48-031: 3.5 nights
- 27. 2013A Gemini North GN-2013A-Q-113 (Band 4): 54.5 hours
- 26. 2013A Gemini South GS-2013A-Q-91 (Band 3): 54.6 hours
- 25. 2013A Gemini South GS-2013A-Q-95 (Band 4): 10.9 hours
- 24. 2013A ESO/NTT 091.D-0292(A): 6 nights
- 23. 2013A LNA/Brazil 2013A-P030: 4 nights
- 22. 2013A SOAR SO2013A-LP2: 17.0 hours (long term)
- 21. 2013A NOT (Nordic Optical Telescope) 47-003: 3.0 nights
- 20. 2012B NOT (Nordic Optical Telescope) 46-011: 2.5 nights
- 19. 2012B ESO/VLT (X-Shooter) 090.D-0321(A): 12 hours
- 18. 2012B LCO/Magellan MAG/12B/9: 2 nights
- 17. 2012B AAO/AAT AAT/12B/032: 6 nights
- 16. 2012B SOAR SO2012B-005: 8.0 hours (long term)
- 15. 2012A Gemini South GS-2012A-Q-81 (Band 4): 74.0 hours
- 14. 2012A AAO/AAT AAT/12A/011: 4 nights
- 13. 2012A LCO/Magellan MAG/12A/7: 2 nights
- 12. 2012A SOAR SO2012A-002: 16.0 hours
- 11. 2011B Gemini South GS-2011B-Q-91 (Band 4): 75.0 hours
- 10. 2011B SOAR (SO2011B-008): 24.0 hours
- 9. 2011A Gemini South GS-2011A-Q-85 (Band 3): 63.4 hours

- 8. 2011A CFHT CF2011A-002: 13.9 hours
- 7. 2010B CFHT 10BB05A/10BB99B: 13.9 hours
- 6. 2010A Gemini South GS-2010A-Q-78 (Band 4): 25.0 hours
- 5. 2009B SOAR SO2009B-004: 17.0 hours
- 4. 2009A SOAR SO2009A-0249: 6 nights
- 3. 2009A SOAR SO2009A-014: 32.0 hours
- 2. 2008A SOAR SO2008A-006: 3 nights
- 1. 2007B SOAR SO2007B-006: 3 nights

# **Invited** / Contributed Presentations

### 2025

94. Kavli Institute for Cosmological Physics | The University of Chicago - Open Group Seminars BD+44°493: Where Near Field Cosmology Meets Exoplanet Science

93. WIYN Board Meeting – Lunch Science Presentation
BD+44°493: Chemo-Dynamics and Constraints on Companion Planetary Masses from WIYN/NEID Spectroscopy

92. Huachuca Astronomy Club – Monthly Science Presentation A tale of two stars: Revealing the Age and Chemical Evolution of the Universe

91. Kitt Peak National Observatory – Docent in Training Program Spectroscopy (a.k.a. the study of rainbows)

**90**. AAS 245 - A conversation about the Gemini Observatory Strategic Plan for the 2030s GHOST Reduced Data Products for the Gemini Observatory Community and Beyond

89. National Astronomical Observatory of Japan - Science Colloquium

Stellar Genealogy: Rare Gems in the Milky Way as Probes of the Chemical Evolution of the Universe

### 2024

91. NSF NOIRLab – Users Committee for NOIRLab (UCN)
Aspects of Data Reduction Support at NOIRLab

90. Kitt Peak National Observatory – Docent in Training Program Spectroscopy for People in a Hurry

89. Nuclear Physics in Astrophysics XI

Neutron-capture in the wild: finding r-process enhanced metal-poor stars in the Milky Way and beyond

88. Rare Gems in Big Data
Stellar Genealogy: Rare Gems in the Milky Way as Probes of the Chemical Evolution of the Universe

87. Kitt Peak National Observatory – Docent in Training Program Spectroscopy (a.k.a. the study of rainbows)

### 2023

87. DELVE Collaboration Meeting

How to also find what you are not looking for: going on a fishing expedition

86. XIX J-PAS Collaboration Meeting
An R-process Enhanced Extremely Metal-Poor Star Identified with Narrow-band Photometry

85. International Research Network for Nuclear Astrophysics – Online Seminar Series (watch it on Youtube)

Neutron-capture in the wild: finding r-process enhanced metal-poor stars in the Milky Way and beyond

84. Observatório Nacional – S-PLUS 18th Collaboration Meeting

An r-process enhanced extremely metal-poor star identified by S-PLUS

83. NSF's NOIRLab – NOIRLab South Colloquium

What else can you find when looking for Carbon Enhanced Ultra Metal-Poor Stars? A GHOST Story

82. NSF's NOIRLab – GHOST Webinar Series

How to Find What You Are Not Looking For: The curious case of SPLUS J1424-2542

**81**. Lund University

What else can you find when looking for Ultra Metal-Poor Stars?

80. NSF's NOIRLab – SWEETS (Support Work Education and Exchange Talk Series) The US National Gemini Office

### 2022

79. Centro de Estudios de Física del Cosmos de Aragón – 18th J-PAS Collaboration Meeting The miniJPAS survey: stellar atmospheric parameters from 56 optical filters

- 78. NSF's NOIRLab DECam at 10 years Looking Back, Looking Forward Searching for Chemically Pristine Stars with Narrowband Photometry
- 77. Centro Brasileiro de Pesquisas Físicas S-PLUS 17th Collaboration Meeting Mining S-PLUS for Metal-Poor Stars in the Milky Way
- 76. Planetário da Gávea, Rio de Janeiro O Céu do Sul e suas Maravilhas SPLUS J2104–0049 e a Evolução Química do Universo
- <u>75</u>. Universidade de São Paulo Astronomia ao Meio-dia (watch it on Youtube in Portuguese) A Tabela Periódica Astrofísica
- 74. Universidade de São Paulo Astrophysics Colloquium (watch it on Youtube)

  Is Carbon Ubiquitous in the High-Redshift Universe? A Stellar Archaeology perspective
- 73. Gemini Observatory Science Meeting 2022

  Making good use of bad weather: a chemically pristine star found through the clouds with Gemini
- 72. Observatório Nacional Seminário da Coordenação de Astronomia e Astrofísica Stellar Archaeology and Near-Field Cosmology: Understanding the Chemical Evolution of the Universe

### 2021

- 71. Universidade de São Paulo S-PLUS 16th Collaboration Meeting

  Mining the S-PLUS catalog to find chemically peculiar stars in the Galaxy
- 70. Instituto Nacional de Pesquisas Espaciais Seminários da Divisão de Astrofísica (watch it on watch it on Youtube)

  Stellar Archaeology and Near-Field Cosmology: Understanding the Chemical Evolution of the Universe
- 69. Universidade Federal de Santa Catarina IX Encontro de Física e Astronomia da UFSC Stellar Archaeology and Near-Field Cosmology: Understanding the Chemical Evolution of the Universe
- 68. Joint Institute for Nuclear Astrophysics Physics of Atomic Nuclei High School Program
  The Age and Chemical Evolution of the Universe from Two Stars in the Milky Way
- 67. Universidade de São Paulo S-PLUS 15th Collaboration Meeting Searching for low-metallicity stars in S-PLUS
- 66. NSF's NOIRLab Live from NOIRLab @ Hawai'i (watch it on Youtube)
  A chemically-peculiar star found from its colors

### 2020

- 65. NSF's NOIRLab Live from NOIRLab @ Hawai'i (Youtube)

  The Age and Chemical Evolution of the Universe from Two Stars in the Milky Way
- 64. NSF's NOIRLab Gemini Observatory Science Coffee
  From R=40 to R=40,000: Mining narrow-band photometric catalogs in search of low-metallicity stars
- 63. Joint Institute for Nuclear Astrophysics Physics of Atomic Nuclei High School Program
  The Age and Chemical Evolution of the Universe from Two Stars in the Milky Way
- **62**. Regional Center for Space Science and Tec Education for West Asia / Arab Union for Astronomy & Space Science Our eyes in the skies: How telescopes help us place ourselves in the Universe
- 61. NSF's NOIRLab Colloquium Near-Field Cosmology with Narrow-Band Photometry and Spectroscopy of Low-Metallicity Stars
- <u>60</u>. Universidade de São Paulo Astrophysics Colloquium Near-Field Cosmology using Narrow-Band Photometry and Low-Metallicity Stars

59. Universidade de São Paulo – Astronomia ao Meio-dia (watch it on Youtube – in Portuguese) Agulhas no palheiro: A evolução química e idade do Universo contadas por duas estrelas

### 2019

- 58. National Optical Astronomy Observatory Stellar Archaeology: Understanding the Chemical Evolution of the Universe through Color Maps of the Night Sky
- <u>57</u>. Joint Institute for Nuclear Astrophysics Physics of Atomic Nuclei High School Program
  The Age and Chemical Evolution of the Universe from two stars in the Milky Way
- 56. Consejo Superior de Investigaciones Científicas 17th J-PAS Collaboration Meeting Identification of Low-Metallicity Stars from Narrow-Band Photometry
- 55. San Francisco State University Physics & Astronomy Colloquium
  Stellar Archaeology: Origin of the Chemical Elements in the Universe through a 59-Color Map of the Sky

### 2018

- <u>54</u>. Kavli IPMU at The University of Tokyo Stellar Archaeology as a Time Machine to the First Stars The Mass Distribution of the First Stars revealed by Abundance Pattern Matching of Ultra Metal-Poor Stars
- 53. Kavli IPMU at The University of Tokyo Introduction to Stellar Archaeology Radioactive Stellar Ages
- 52. Texas A&M University Commerce Physics & Astronomy Colloquium Stellar Archaeology: Understanding the Origin of the Chemical Elements through a 59-Color Map of the Night Sky
- 51. Chungnam National University Department of Astronomy & Space Science Seminar
  The Origin of the Chemical Elements in the Universe revealed by a 12-Color Map of the Night Sky
- 50. Korea Astronomy and Space Science Institute Colloquium Constraints on Near-Field Cosmology through Abundance Pattern Matching of Ultra Metal-Poor Stars
- 49. Universidade de São Paulo Astronomy Colloquium
  The Southern Photometric Local Universe Survey (S-PLUS): An Overview
- 48. Universidade de São Paulo S-PLUS Meeting Short update on S-PLUS SHORTS
- 47. University of Notre Dame Astronomy 1-minute talks (23 presenters)
  Organizer and Presenter
- <u>46</u>. University of Notre Dame Our Universe Revealed A day in the life of an Astronomer
- 45. Kavli Institute for Cosmological Physics Near-Field Cosmology with the Dark Energy Survey The Age Structure of the Milky Way Halo revealed by DES
- 44. Joint Institute for Nuclear Astrophysics Physics of Atomic Nuclei High School Program

  Can we talk about the Age and Chemical Evolution of the Universe by looking at only two stars?
- 43. Centro de Estudios de Física del Cosmos de Aragón J-PLUS  $2^{\rm nd}$  Virtual Meeting J-PLUS Stellar Parameter Value Added Catalog
- <u>42</u>. Shanghai Jiao Tong University Tsung-Dao Lee Institute Workshop on The Exploding Universe Probing the mass distribution of the first stars through abundance pattern matching of ultra metal-poor stars
- <u>41</u>. JINA-CEE Frontiers in Nuclear Astrophysics Main Conference
  Observational constraints on the origin of the elements: from First stars to Neutron-Star mergers
- <u>40</u>. Manhattan College Physics Department Colloquium
  Understanding the Origin of the Elements in the Universe through a 12-Color Map of the Night Sky

- 39. JINA-CEE Frontiers in Nuclear Astrophysics Junior Workshop Speaking Skills
- 38. Centro de Estudios de Física del Cosmos de Aragón 16th J-PAS Collaboration Meeting Pathfinder science Constraints on First-Star Nucleosynthesis from J-PAS Photometry of Low-Metallicity Stars
- 37. Universidade de São Paulo S-PLUS Collaboration Meeting (online)
  Updates on S-PLUS Short Survey(s)

### 2017

- 36. Universidade de São Paulo S-PLUS Collaboration Meeting (online) *Updates on S-PLUS Short Survey(s)*
- 35. Michiana Astronomical Society MAS monthly meeting speaker

  A Tale of Two Stars: Revealing the Age and Chemical Evolution of the Universe
- 34. University of Notre Dame Astro-Skills Lunch *The do's and don'ts when plotting data*
- 33. Red de Infraestructuras de Astronomia Early Data Release and Scientific Exploitation of the J-PLUS Survey Identification of (Bright) Carbon-Enhanced Metal-Poor Stars with J-PLUS Photometry
- 32. GMT Community Science Meeting Chemical Evolution of the Universe

  A Monte Carlo approach to find the Progenitors of Ultra Metal-Poor Stars (Rapid Poster Talk)
- 31. University of Notre Dame The Great American Eclipse at Notre Dame Co-organizer / Astronomy faculty representative 3,500 attendees
- <u>30</u>. University of Notre Dame Research Experiences for Undergraduates (REU) Program

  A needle in a haystack: What one star can tell us about the age and chemical evolution of the entire Universe
- 29. Centro de Estudios de Física del Cosmos de Aragón J-PLUS 1<sup>st</sup> Virtual Meeting *Identifying (Carbon-Enhanced) Metal-Poor Stars from J-PLUS Photometry*
- 28. Joint Institute for Nuclear Astrophysics Physics of Atomic Nuclei High School Program Stellar Archaeology: The Age and Chemistry of the Universe revealed by old Stars
- **27**. Universidade de São Paulo Astrophysics Colloquium

  Searching for the Origin of the Elements Using a 12-Color Map of the Night Sky

### 2016

- <u>26</u>. University of Notre Dame Astrophysics Seminar

  A Monte Carlo approach to find the Progenitors of Ultra Metal-Poor Stars
- <u>25</u>. University of Notre Dame Department of Physics Colloquium

  Searching for the Origin of the Elements Using a 12-Color Map of the Night Sky
- 24. University of Notre Dame Astronomy 1-minute talks (19 presenters) Organizer and Presenter
- 23. Universidade de São Paulo X-PLUS Collaboration Meeting Identifying Bright Carbon-Enhanced Metal-Poor Stars from S-PLUS Photometry
- University of Notre Dame Research Experiences for Undergraduates (REU) Program Near-Field Cosmology with Metal-Poor Stars
- 21. University of Notre Dame Our Universe Revealed A day in the life of an Astronomer
- 20. University of Notre Dame Our Universe Revealed
  Our eyes in the skies: How telescopes help us place ourselves in the Universe
- 19. 227th Meeting of the American Astronomical Society Identifying Bright Carbon-Enhanced Metal-Poor Stars in the RAVE Catalog

### 2015

18. University of Notre Dame – Our Universe Revealed

The stuff we are made of: how do we determine the chemical elements in stars and the Universe?

- 17. University of Notre Dame Astronomy 1-minute talks (15 presenters) Organizer and Presenter
- 16. Joint Institute for Nuclear Astrophysics / University of Notre Dame High School On Air Talk Stellar Archaeology: The Age and Chemistry of the Universe revealed by old Stars – YouTube video
- 15. Michigan State University JINA-CEE Nuclear Astrophysics Lunch Research Discussions Observing the First Stars through the Atmospheres of Ultra Metal-Poor Stars
- 14. Universidade de São Paulo X-PLUS Collaboration Meeting

  \*\*Identifying Carbon-Enhanced Metal-Poor Stars from S-PLUS Photometry\*\*

  \*\*Identifying Carbon-Poor Stars from S-PLUS Photometry\*\*
- 13. University of Notre Dame Research Experiences for Undergraduates (REU) Program

  Galactic Archaeology: The Chemical Evolution and Age of the Universe revealed by old Stars

#### 2014

- 12. University of Notre Dame Astronomy Seminar

  Exploring the history of the Galactic halo with Carbon-Enhanced Metal-Poor stars
- 11. Massachusetts Institute of Technology Kavli Institute

  Exploring the history of the Galactic halo with Carbon-Enhanced Metal-Poor stars

#### 2013

- 10. National Optical Astronomy Observatory (Carbon Enhanced) metal-poor stars and the chemical evolution of the Universe
- Gemini Observatory Northern Operations Center Metal-poor stars as tracers of the chemical evolution of the Galaxy

### 2012

- **8**. Universidade Cruzeiro do Sul Astronomy Colloquium Search for Carbon-Enhanced Metal-Poor stars in the Halo(es) of the Galaxy
- 7. Universidade de São Paulo Astronomy Colloquium Spectroscopy from R=300 to 30000: metal-poor stars and Galactic chemical evolution
- **6**. Universidade de São Paulo Invitation to Physics: undergraduate weekly seminar Arqueologia Galáctica: a evolução química do universo revelada por estrelas pobres em metais
- 5. Universidade de São Paulo Astronomy at noon: undergraduate weekly seminar Census of the Milky Way

### 2011

- 4. Universidade de São Paulo Chemical Evolution Group Seminar Rediscovering the Dual Halo of the Milky Way via Hierarquical Clustering
- 3. Universidade de São Paulo Astronomy at noon: undergraduate weekly seminar Stellar Archaeology
- 2. Universidade de São Paulo Astronomy Colloquium

  Making good use of bad weather: finding extremely metal-poor stars in the clouds
- ESO Headquarters Santiago Astronomy Colloquium Searches for Metal-Poor Stars from the Hamburg/ESO Survey using the CH G-band

## Academic Experience

### Student/Postdoc supervision

### Postdoctoral level

2022-2023 Felipe de Almeida Fernandes (Universidade de São Paulo - Visiting Fellow at NSF NOIRLab)

#### **Graduate Level**

```
2023-
            Eduardo Machado Pereira (Observatório Nacional, Brazil - Visiting Student at NSF NOIRLab)
2019-2022
            Carlos Andrés Galarza Arevalo (Observatório Nacional - Brazil)
2019-2022
            Joseph Zepeda (University of Notre Dame)
2019-2022
            Derek Shank (University of Notre Dame)
2015-2020
            Sarah Dietz (University of Notre Dame)
            Dmitrii Gudin (University of Notre Dame)
2015-2020
            Devin Whitten (University of Notre Dame)
2015-2020
2015-2020
            Kaitlin Rasmussen (University of Notre Dame)
            Geoffrey Lentner (University of Notre Dame)
2015-2017
2010-2016
            Rafael Santucci (M.Sc. and Ph.D. - Universidade de São Paulo)
```

### Undergraduate Level - University of Notre Dame

```
2020
            Dante Komater (Physics Major)
2019-2020
            Lucas Pinheiro (Engineering Major)
     2019
            Shenghua Liu (Physics Major)
     2019
            Winter Allen (Arkansas Tech University - REU)
     2019
            Yihao Zhou (Shanghai Jiao Tong University - REU)
2016-2018
            Erik Peterson
2016-2018
            David Kalamarides
2015-2018
            Spencer Clark (Glynn Family Honors Program) - Senior Thesis
2016-2017
            John Roach
2016-2017
            Cristobal Gonzales
2016-2017
            Michael Kurkowski
            Jazmine Jefferson (University of Kansas - REU)
     2017
     2017
            Derek Shank (Ohio Wesleyan University - DISC/REU) - video report
            Diego Fernandez (University of Oregon - REU)
     2017
     2016
            Travis Hodges (Austin Peay State University - DISC/REU)
            Miguel Correa (San Diego State University - REU)
     2016
     2015
            Siyu He (Xi'an Jiaotong University - REU)
2012-2014
            William Alves (Universidade de São Paulo)
            Rafael Santucci (Universidade de São Paulo)
2008-2010
```

# Committee Service - University of Notre Dame

2019–2020	Undergraduate Research, Department of Physics
2016-2018	Graduate Recruitment, Department of Physics
2015-2018	Preliminary Exam Committee, Department of Physics
2015–2018	University Committee on Research & Sponsored Programs, Notre Dame Research

# Thesis Defense Committee

2024	Paulo Cesar Vargas Junior (M.Sc.)
	Universidade Federal de Goiás
2024	Guilherme Limberg (Ph.D.)
	Universidade de São Paulo
2024	Franklin T. S. Sampaio (M.Sc.)
	Universidade Federal de Goiás
2024	Fábio Carneiro Wanderley (Ph.D.)
	Observatório Nacional
2024	Elvis William Carvalho Cantelli (Ph.D.)
	Universidade de São Paulo
2023	Yuri Abuchaim de Oliveira (M.Sc.)
	Universidade de São Paulo
2023	( )
	Universidade de São Paulo
2018–2022	Heitor Ernandes (Ph.D committee chair)
	Universidade de São Paulo
2021	Raphaela Fernandes de Melo (M.Sc.)
	Observatório Nacional
2019	Henrique Reggiani (Ph.D.)
	Universidade de São Paulo
2016	Rafael Miloni Santucci (Ph.D.)
	Universidade de São Paulo
2016	Camilo Francisco Javier Muñoz Peña (M.Sc.)
	Universidade de São Paulo

# Organizing Committee - Conferences and Workshops

```
    2024 Rare Gems in Big Data
        NSF NOIRLab

    2022 DECam at 10 years - Looking Back, Looking Forward
        NSF NOIRLab
```

# **Teaching**

# Lead Instructor (LI) / Co-Instructor (CI) / Guest Lecturer (GL)

### Undergraduate

		omversity of Notice Burne
2020	(LI)	Descriptive Astronomy (SU20-PHYS-10140)
		Course Instructor Feedback: 5.0/5.0 - link to full report
	(LI)	Descriptive Astronomy (SP20-PHYS-10140)
		Course Instructor Feedback: 5.0/5.0 - link to full report
	(LI)	General Physics B - E & M Laboratory (SP20-PHYS-11422)
		Course Instructor Feedback: 5.0/5.0 - link to full report
	(GL)	Engineering Physics II Laboratory (SP20-PHYS-11320)
	(GL)	Engineering Physics I Laboratory (SP20-PHYS-11310)
2019	(LI)	Physics A - Mechanics Laboratory (FA19-PHYS-11411)
		Course Instructor Feedback: 5.0/5.0 - link to full report
	(LI)	Descriptive Astronomy (SU19-PHYS-10140)
		Course Instructor Feedback: 5.0/5.0 - link to full report
2018	(GL)	Descriptive Astronomy (FA18-PHYS-10140)
2017	(CI)	Descriptive Astronomy (FA17-PHYS-10140)
	(LI)	General Physics B - E & M Laboratory (SP17-PHYS-11422)
		Course Instructor Feedback: 4.8/5.0 - link to full report
2016	(GL)	Descriptive Astronomy (FA16-PHYS-10140)
2015	(GL)	Modern Observational Techniques (FA15-PHYS-30481)
		Universidade Virtual do Estado de São Paulo
2012	(LI)	Sky and Stars: An introduction
	(LI)	Galaxies: An introduction
2011	(LI)	Sky and Stars: An introduction
	(LI)	Galaxies: An introduction
Graduate	` ′	
		University of Notre Dame
2017	(CI)	Astrophysics: Stars (SP17-PHYS-80202)
2016	(CI)	Large-Scale Astronomical Surveys (SP16-PHYS-70210)
2015	(GL)	Astrophysics: Stars (SP15-PHYS-80202)
		Universidade de São Paulo
2012	(GL)	Observational Astronomy
	` '	•

### Teaching Assistant - Universidade de São Paulo

2009	Introduction to Astronomy
	Fundamental Astronomy
2008	Introduction to Astronomy
2007	Fundamental Astronomy

### Other relevant information

### Technical skills

Linux/Unix/MACOSX/Windows operating systems

Shell Scripting (sh, bash, tcsh, zsh)

LATEX, OpenOffice, MS Office. Co-author of the LATEX template IAGTESE

Python (iPython/Jupyter Notebooks): scipy, numpy, pandas, scikitlearn, pyfits, astropy

R-project (terminal/RStudio): FITSio, tidyverse, cluster, sciviews

Databases: SQL (PostgreSQL/pgAdmin3), SDSS CasJobs, ADQL (J-PLUS/J-PAS/TAPVizieR) Web: html, ccs, wordpress, apache, curl, wget, ssh, ftp, drupal, Google Analytics, Matomo

Graphics: Gnuplot, ggplot2, matplotlib, bokeh, tableau

Data reduction: IRAF/Pyraf packages, DRAGONS, ESO Reflex/Gasgano

Astronomy tools: WCSTools, CDSclient, STILTS, SkyCalc

Documentation: Sphinx, readthedocs

Version control and DevOps: Git, GitHub, GitLab

### Online Resources

Webpage: http://vmplacco.github.io/

LinkedIn: https://www.linkedin.com/in/vinicius-placco/

GitHub: https://github.com/vmplacco/

stackoverflow: https://stackoverflow.com/users/5964833/vinicius-placco

pythonanywhere: https://vplacco.pythonanywhere.com/

Sample webpages/

side projects: http://vmplacco.github.io/#resources

### Professional Affiliations/Service

Member of the American Astronomical Society

Member of the Brazilian Astronomical Society

Member of the Brazilian Physical Society

Member of the JINA Center for the Evolution of the Elements

Referee for The Astronomy and Astrophisics Review

Referee for the American Astronomical Society Journals

Referee for the AAAS Science Magazine

Referee for Astronomy & Astrophysics

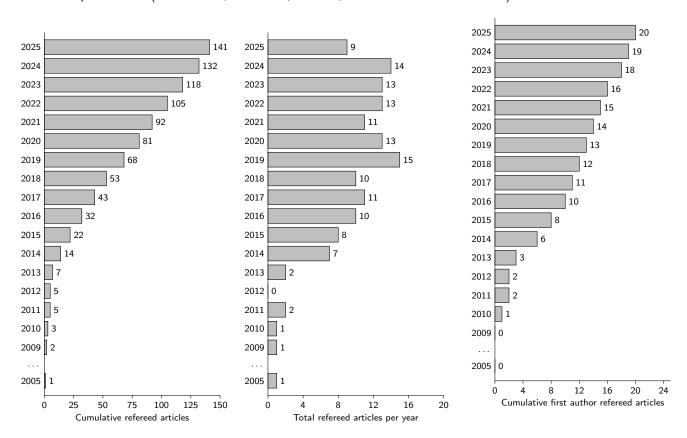
Referee for Monthly Notices of the Royal Astronomical Society

Referee for Astronomy & Computing

# **Publication list**

### Refereed articles

Total: 141 publications (incl. 20 first, 13 second, 17 third, and 15 fourth author articles)



141. Placco, V. M., Limberg, G., Chiti, A., Prabhu, D. S., Ji, A. P., Barbosa, F. O., Cerny, W., Pace, A. B., Stringfellow, G. S., Sand, D. J., MartÃnez-Vázquez, C. E., Riley, A. H., Rossi, S., Noël, N. E. D., Vivas, A. K., Medina, G. E., Drlica-Wagner, A., Sakowska, J. D., Mutlu-Pakdil, B., Massana, P., Carballo-Bello, J. A., Choi, Y., Crnojević, D., Tan, C. Y.

The DECam MAGIC Survey: Spectroscopic Follow-up of the Most Metal-Poor Stars in the Distant Milky Way Halo

2025, The Astrophysical Journal, submitted

- 140. Hirai, Y., Beers, T., Lee, Y. S., Wanajo, S., Roederer, I. U., Tanaka, M., Chiba, M., Saitoh, T., Placco, V. M., Hansen, T. T., Ezzeddine, R., Frebel, A., Holmbeck, E. M., Sakari, C. M.

  The R-Process Alliance: Enrichment of R-process Elements in a Simulated Milky Way-like Galaxy

  2025, The Astrophysical Journal, in press
- 139. Aoki, W., Beers, T. C., Honda, S., Matsuno, T., Placco, V. M., Yoon, J., Kuzuhara, M., Harakawa, H., Hirano, T., Kotani, T., Kurokawa, T., Nishikawa, J., Omiya, M., Tamura, M., Vievard, S. Elemental abundances of 44 very metal-poor stars determined from Subaru/IRD near-infrared spectra 2025, Publications of the Astronomical Society of Japan, in press
- Bandyopadhyay, A., Ezzeddine, R., Placco, V. M., Frebel, A., Aguado, D. S., Roederer, I. U. Probing Abundance Variations Among Multiple Stellar Populations in the Metal-poor Globular Cluster NGC 2298 Using Gemini-South/GHOST
   The Astronomical Journal, vol. 170, 37 (ADS)

137. Quispe-Huaynasi, F., Roig, F., Holanda, N., Loaiza-Tacuri, V., Eleutério, R., Pereira, C. B., Daflon, S., Placco, V. M., Lopes de Oliveira, R., Sestito, F., Humire, P. K., Borges Fernandes, M., Kanaan, A., Mendes de Oliveira, C., Ribeiro, T., Schoenell, W.

- An Unsupervised Machine Learning Approach to Identify Spectral Energy Distribution Outliers: Application to the S-PLUS DR4 Data
- **2025**, The Astronomical Journal, vol. 169, 332 (ADS)
- 136. Hansen, T. T., Roederer, I. U., Shah, S., Ezzeddine, R., Beers, T., Frebel, A., Holmbeck, E. M., Placco, V. M., Sakari, C. M., Ji, A. P., Marshall, J. L., Mardini, M. K., Chiti, A. The R-Process Alliance: Hunting for gold in the near-UV spectrum of 2MASS J05383296—5904280 2025, Astronomy & Astrophysics, vol. 697, A127 (ADS)
- 135. Rodriguez, C. N., Ferrero, G., Benvenuto, O., Ansin, T., Gamen, R., Morrell, N., Higa, R., Putkuri, C., Johnston, C., Chiboucas, K., Deibert, E., Hayes, C., Heo, J., Jeong, M., Kalari, V., Martioli, E., Placco, V. M., Venn, K., Xu, S., Diaz, R., Gomez-Jimenez, M., Ruiz-Carmona, R., Simpson, C., McConnachie, A. W., Pazder, J., Burley, G., Berg, T. A. M., Robertson, J. G., Labrie, K., Thomas-Osip, J. The Secondary Component of the Extremely Low Mass Ratio Massive Binary HD 165246 Revealed by GHOST 2025, The Astrophysical Journal, vol. 980, 169 (ADS)
- 134. Cerny, W., Chiti, A., Geha, M., Mutlu-Pakdil, B., Drlica-Wagner, A., Tan, C. Y., Adamów, M., Pace, A. B., Simon, J. D., Sand, D. J., Ji, A. P., Li, T. S., Vivas, A. K., Bell, E. F., Carlin, J. L., Carballo-Bello, J. A., Chaturvedi, A., Choi, Y., Doliva-Dolinsky, A., Gnedin, O. Y., Limberg, G., Martínez-Vázquez, C. E., Mau, S., Medina, G. E., Navabi, M., Noël, N. E. D., Placco, V. M., Riley, A. H., Roederer, I. U., Stringfellow, G. S., Bom, C. R., Ferguson, P. S., James, D. J., Martínez-Delgado, D., Massana, P., Nidever, D. L., Sakowska, J. D., Santana-Silva, L., Sherman, N. F., Tollerud, E. J. Discovery and Spectroscopic Confirmation of Aquarius III: A Low-mass Milky Way Satellite Galaxy 2025, The Astrophysical Journal, vol. 979, 164 (ADS)
- 133. Ferreira Lopes, C. E., Gutiérrez-Soto, L. A., Ferreira Alberice, V. S., Monsalves, N., Hazarika, D., Catelan, M., Placco, V. M., Limberg, G., Almeida-Fernandes, F., Perottoni, H. D., Smith Castelli, A. V., Akras, S., Alonso-García, J., Cordeiro, V., Jaque Arancibia, M., Daflon, S., Dias, B., Machado-Pereira, E., Lopes, A. R., Bom, C. R., Thom de Souza, R., de Oliveira, N., Alvarez-Candal, A., De Rossi, M., Bonatto, C., Cubillos Palma, B., Borges Fernandes, M., Humire, P., Oliveira Schwarz, G., Schoenell, W., Kanaan, A., Mendes de Oliveira, C. Stellar atmospheric parameters and chemical abundances of ~5 million stars from S-PLUS multi-band photometry 2025, Astronomy & Astrophysics, vol. 693, A306 (ADS)
- 132. Placco, V. M., Gupta, A. F., Almeida-Fernandes, F., Logsdon, S. E., Rajagopal, J., Holmbeck, E. M., Roederer, I. U., Della Costa, J., Fernandez, P., Golub, E., Higuera, J., Patel, Y., Ridgway, S., Schweiker, H. BD+44° 493: Chemo-Dynamical Analysis and Constraints on Companion Planetary Masses from WIYN/NEID Spectroscopy
  2024, The Astrophysical Journal, vol. 977, 12 (ADS)
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## Press releases, articles, and media resources

### 2023

### Phys.org

Ancient stars made extraordinarily heavy elements, researchers find

### Indiana Daily Student

IU professor provides insight into evolution of stars (external opinion)

### 2022

#### Hawaii Tribune-Herald

Cloud of matter could be remains of oldest stars (external opinion)

### Space.com

Stunning time-lapse videos show the Super Flower Blood Moon in bloom

#### digg

Footage From Gemini Observatory's Fisheye Lens Captures A Stunning Glimpse Of The Milky Way

### Associated Press

Twinkle, twinkle giant star, astronomers see how far you are (external opinion)

#### 2021

### **NBC News**

An ancient star casts new light on the birth of the universe

#### Phys.org

Reseachers detect a new ultra-metal-poor star

#### **NOIRLab Stories**

Ultra Metal-Poor Star Discovery

### Revista FAPESP (featured article)

Star Fossil

#### S-PLUS Press Release

Astronomers discover an ultra metal-poor star that challenges models for the evolution of the first stars

#### India Education Diary

University Of São Paulo: Astronomers Discover Star That Challenges Current Models Of Evolution Of The Universe

### Jornal da USP (in Portuguese)

Astrônomos descobrem estrela que desafía modelos atuais de evolução do Universo

### Ravista FAPESP (in Portuguese)

Fóssil Estelar

### Observatório Nacional (in Portuguese) - Audio interview

Astrônomos descobrem estrela que desafía modelos atuais de evolução do Universo

### Revista Planeta (in Portuguese)

Achada estrela que desafía modelos atuais de evolução do universo

### tilt UOL (in Portuguese)

"Ultrapobre": brasileiros encontram uma das estrelas mais raras do universo

### Sputnik News Brasil (in Portuguese)

Detectada estrela recordista em carência metálica que pode explicar evolução inicial do Universo

#### Hypeness (in Portuguese)

Telescópio com tecnologia brasileira localiza estrela mais velha que o Sol

Notícias da Universidade Federal de Santa Catarina (in Portuguese)

Projeto internacional de astronomia com participação da UFSC descobre estrela rara

Agência Brasil - Rádio Nacional (in Portuguese - with audio interview)

Universo: cientistas descobrem estrela rara e considerada ultrapobre

CAPES - Ministério da Educação (in Portuguese)

Estrela rara desafia lógica da astrofísica

TEKCRISPY (in Spanish)

La humanidad podría haber descubierto una de las estrellas más antiguas del universo

NOIRLab Stories (in Spanish)

Descubrimiento de una estrella ultra pobre en metal

2020

Phys.org (online)

Peculiar chemical abundance pattern detected in the star RAVE J183013.5-455510

Inside Higher Ed (online)

The rise of the remote Ph.D. defense

Gemini Observatory - GeminiFocus 2019 Year In Review (online)

Making Good Use of Bad Weather: Finding Metal-poor Stars Through the Clouds

2019

MIT News (online)

Explosions of universe's first stars spewed powerful jets

Gemini Observatory News (online)

Making Good Use of Bad Weather: Finding Metal-poor Stars Through the Clouds

Gemini Observatory - GeminiFocus April 2019 Lead Science Article (online)

Making Good Use of Bad Weather: Finding Metal-poor Stars Through the Clouds

2018

Notre Dame Science - Department of Physics News (online)

Summertime Stargazing event draws large crowd

Notre Dame Stories (online)

Heavy Metals

2017

Revista FAPESP (in Portuguese - online)

Fonte de ouro e régua do universo

Agência FAPESP (in Portuguese - online)

Nova fonte de ondas gravitacionais é observada

Notre Dame News (online)

Students in right place, right time witness first-ever detected neutron star collision

Notre Dame College of Science News (online)

Astrophysics graduate students witness first-ever detected neutron star collision

Agência FAPESP (in Portuguese - online)

Estudo detecta elétrons duplamente acelerados no choque de aglomerados de galáxias

École Polytechnique News (online)

The inaugural issue of Nature Astronomy features the work of F. Andrade-Santos

Jornal da USP (in Portuguese - online)

Cientistas descobrem poderosa colisão cósmica dupla

Folha de São Paulo (in Portuguese - online)

Quando aglomerados de galáxias colidem e um buraco negro gigante entra no meio da história

Nature Astronomy (online - issue cover)

The case for electron re-acceleration at galaxy cluster shocks

Chandra X-ray Observatory Blog (online)

The Discovery of Particle Re-acceleration in a Galaxy Cluster Collision

Notre Dame News (online)

Notre Dame astrophysicist confirms source of galaxy collision

2016

Nature Physics (online - issue cover)

The age structure of the Milky Way's halo

Notre Dame News (online)

Second-generation stars identified, giving clues about their predecessors

Science Alert (online)

Astronomers have created the most detailed age map of the Milky Way yet

Universe Today (online)

Best picture yet of Milky Way's formation 13.5 billion years ago

Notre Dame News (online)

Detailed age map shows how Milky Way came together

Daily Mail (online)

How the Milky Way formed: Stunning 3D maps show how 130,000 stars came together 13.5 billion years ago

Daily Mail (online)

Graphic shows age structure of the Milky Way's halo

Astrobites (online)

Our halo is getting younger, spatially speaking

UPI (online)

New map details formation of the Milky Way galaxy

International Business Times (online)

How Did The Milky Way Form? New Chronographic Map Provides Answers

Phys.org (online)

Detailed age map shows how Milky Way came together

Reddit Journal of Science (online)

Detailed age map shows how Milky Way came together

Science Daily (online)

Detailed age map shows how Milky Way came together

Laboratory Equipment (online)

Detailed age map shows how Milky Way came together

Geek Journal (online)

Detailed age map shows how Milky Way came together

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Detailed age map shows how Milky Way came together

Science Newsline (online)

Detailed age map shows how Milky Way came together

MSU Today (online)

Astronomers pinpoint how Milky Way Galaxy was formed

Ancient Code (online)

How the Milky Way formed: Awesome 3D map shows how 130,000 stars merged

Astro Watch (online)

Detailed Age Map Shows How Milky Way Came Together

Science Bulletin (online)

Detailed Age Map Shows How Milky Way Came Together

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Life Science Network (online)

The age structure of the Milky Way's halo

Jornal da USP (in Portuguese - online)

Astrônomos brasileiros mapeiam estrutura de idades do halo da Via Láctea

Agência FAPESP (in Portuguese - online)

Pesquisadores mapeiam a distribuição cronológica dos astros da Via Láctea

Revista Galileu (in Portuguese - online)

Brasileiros confirmam que estrelas na borda da Via Láctea são as mais novas

O Povo (in Portuguese - online)

Como os astros da Via Láctea se distribuem?

Space Today TV (in Portuguese - online)

Como a Via Láctea Se Formou

Público (in Spanish - online)

Así se formó la Vía Láctea

Geofísica Brasil (in Portuguese - online)

IAG-USP mapeia distribuição cronológica dos astros da Via Láctea

Planeta Universitário (in Portuguese - online)

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News Rondônia (in Portuguese - online)

Pesquisadores mapeiam a distribuição cronológica dos astros da Via Láctea

JINA-CEE Newsletter (online - Page 2)

Evidence for Multiple Progenitors of CEMP-no Stars

Space Daily (online)

Relics of the Milky Way's first generation of stars

University of Michigan News (online)

Relics of the Milky Way's first generation of stars

Notre Dame News (online)

Astrophysicists release new study of one of the first stars

Newswise (online)

Astrophysicists release new study of one of the first stars

EurekAlert! - AAAS (online)

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Scientia (online - page 13)

Physics team creates Milky Way galaxy map

JINA-CEE Newsletter (online)

Discovery of the Brightest Ultra Metal-Poor Star

Agência FAPESP (in Portuguese - online)

Via Láctea cresceu de dentro para fora

Exame.com (in Portuguese - online)

Via Láctea cresceu de dentro para fora, diz pesquisa

Planeta Universitário (in Portuguese - online)

Via Láctea cresceu de dentro para fora

European Southern Observatory Photo Press Release (online)

ESO Telescopes Spy a Rare Relic

Notre Dame News (online)

Newly discovered star offers opportunity to explore origins of first stars in the early universe

Space Daily (online)

How the first stars sprung to life in early universe

Astronomy Now UK (online)

Ancient star provides insight into stellar origins in early universe

Empresa Brasil de Comunicação (in Portuguese - online)

História da Via Láctea ganha novos capítulos com descoberta de estrela por equipe da USP

Correio Braziliense (in Portuguese - online)

Astrônomos brasileiros identificam estrela rara na Via Láctea

Globo.com (in Portuguese - online)

Professor da USP descobre estrela tão antiga quanto o Universo

G1.globo.com (in Portuguese - online)

Astrônomos identificam estrela antiga e rara na Via Láctea

Agência USP de Notícias (in Portuguese - online)

Estrela traz evidências do início da Via Láctea

Universidade de São Paulo - Notícias (in Portuguese - online)

Equipe liderada pela USP identifica estrela chave para entender o início da Via Láctea

Agência FAPESP (in Portuguese - online)

Astrônomos brasileiros identificam estrela rara na Via Láctea

Folha de São Paulo (in Portuguese - online)

Astrônomos encontram uma estrela quase tão velha quanto o próprio Universo

JINA-CEE Newsletter (online)

Hubble Space Telescope Near-Ultraviolet Spectroscopy of Bright CEMP-s Stars

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The First Age Map of the Galactic Halo

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UOL Notícias (in Portuguese - online)

Mapa permite estimar idade das estrelas da Via Láctea

Astronomy & Astrophysics Highlights (online)

2MASS J18082002-5104378: The brightest (V=11.9) ultra metal-poor star

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Galactic archeologists create the first map of Milky Way's stellar halo

Best Education News (online)

Astrophysicists produce the first age map of the halo of the Milky Way

National Science Foundation - News from the Field (online)

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The Watchers (online)

The first age map of the Milky Way's halo produced

Red Orbit (online)

First-ever Milky Way age map shows oldest stars clustered in center

Headlines and Global News (online)

Milky Way Age Map Created For The First Time, Confirming Past Assumptions In Astrophysics

Global News Connect (online)

Astrophysicists furnish a initial age map of a Halo of a Milky Way

Sciece World Report (online)

First Ever Age Map of the Milky Way Galaxy Reveals History of the System

Media INAF (in Italian - online)

Quanto è vecchia la Via Lattea?

The Observer (online and print)

"Our Universe Revealed" lecture looks at chemical composition of stars

#### 2014

JINA-CEE Newsletter (online)

Seven New Stars with [Fe/H] < -3 - Six of them CEMP-no

Phys.org (online)

Galactic archaeologists uncover new insights into the formation of the earliest stars and galaxies