

# Curriculum Vitæ - Vinicius Moris Placco

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## Personal information

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

### Leadership roles/Service

2020–present	Hubble Space Telescope External Proposal reviewer
2018–present	Member of the J-PAS Survey Science Committee ( <a href="#">Javalambre Physics of the Accelerating Universe Survey</a> )
2018–present	Co-coordinator of the Resolved Stellar Population Working Group of the J-PAS Survey
2018–present	Member of the Maunakea Spectroscopic Explorer (MSE) <a href="#">Science Team</a>
2017–present	Subaru Telescope Proposal reviewer – category group: Normal Stars, Metal-Poor Stars
2017–present	Member of the S-PLUS Advisory Committee ( <a href="#">Southern Photometric Local Universe Survey</a> )
2017–present	Principal Investigator of the S-PLUS Short Survey
2019–2020	Member of the NSF NOIRLab Time Allocation Committee - <a href="#">Galactic Panel 2</a>
2017–2020	US representative for the Gemini Observatory Users Committee
2018–2019	Member of the NOAO Time Allocation Committee - <a href="#">Galactic Panel 2</a>
2017–2018	Member of the Gemini OCS Upgrades Working Group
2018	US Extremely Large Telescope Program – <a href="#">First Stars Key Science Project</a>

### Operations and Instrument/User Support

2020–present	<b>NSF NOIRLab:</b> Community Science & Data Center – US National Gemini Office Product development for the Gemini user community: <a href="#">Twitter account bots</a> – daily completion, weekly paper, monthly completion, other metrics <a href="#">GitHub repositories</a> – DRAGONS Imaging tutorials, IRAF Spectroscopy tutorials, users dashboard Co-organization of AAS Splinter Meetings Responsible for managing the <a href="#">NOIRLab IRAF modernization project</a> <a href="#">Migration and maintenance of the US NGO Portal</a> <a href="#">Migration and maintenance of the GMOS Cookbook</a> <a href="#">Migration and maintenance of the XDGNIRS Pipeline</a> Gemini HelpDesk – Responsible for selected Tiers 2 and 3 inquiries
2021–present	<b>NSF NOIRLab:</b> Communications, Education & Engagement Supported the migration of the NOAO Science website to the new <a href="#">NOIRLab Science website</a> Developed, revised, and curated content for the <a href="#">NOIRLab Science website</a> Serve as a liaison between RSS and CEE Support science staff in adding/editing content on the science webpages Responding/routing science inquiries from <a href="mailto:usercomms@noirlab.edu">usercomms@noirlab.edu</a> and <a href="mailto:info@noirlab.edu">info@noirlab.edu</a> Responsible for the curation of the <a href="#">NOIRLab Capabilities Brochure</a>
2021–2022	<b>NSF NOIRLab:</b> 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	<b>Gemini-North:</b> 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	<b>Gemini-North:</b> GMOS Instrument Team Instrument performance monitoring pipeline <b>Throughput characterization</b> Commissioning of AO capabilities Write/edit/update internal and external instrument webpages Data quality assessment Commissioning of Hamamatsu CCD at GMOS-S
2014–2015	<b>Gemini-North:</b> 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	<b>SOAR Telescope:</b> 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 personnel 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 475,229)

- 2025 International Research Network for Nuclear Astrophysics  
*The 2nd IReNA-Ukakuren Joint Workshop Advancing Nuclear Astrophysics and Beyond*  
(USD 5,000 - Travel support for conference)
- 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

- 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 Astrophysics)
- 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 Michigan State University  
2007 Physics and Astronomy Department  
Funding: JINA (USA), FAPESP, PROEX (Brazil)

## Telescope time allocations

**Approved observing projects: 213**

**Total awarded: 7690.81 hours**

\*does not include time allocated through university partnerships

## Principal Investigator

**Approved observing projects: 54**

**Total awarded: 1788.05 hours**

54. 2025B - Gemini North - GN-2025B-Q-405 (Band 4): 0.75 hours
53. 2025A - Gemini South - GS-2025A-Q-417 (Band 4): 4.00 hours
52. 2025A - Gemini South - GS-2025A-Q-408 (Band 4): 11.50 hours
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
19. 2014A - Gemini North - GN-2014A-Q-105 (Band 4): 33.3 hours
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: 159**

**Total awarded: 5902.76 hours**

159. 2025B - Gemini South - GS-2025B-FT-106 (Fast Turnaround): 3.00 hours
158. 2025B - Gemini South - GS-2025B-Q-111 (Band 1 - GT): 50.00 hours
157. 2025B - Gemini South - GS-2025B-Q-132 (Band 1): 2.60 hours
156. 2025B - Gemini South - GS-2025B-Q-224 (Band 2): 1.80 hours
155. 2025B - Gemini South - GS-2025B-Q-315 (Band 3): 1.80 hours
154. 2025B - Gemini South - GS-2025B-Q-324 (Band 3): 25.40 hours
153. 2025B - CTIO/Blanco - 2025B-646244 (survey): 85.00 hours
152. 2025A - ESO - 114.28L2 (Director's Discretionary): 10.50 hours
151. 2025A - Gemini South - GS-2025A-Q-114 (Band 1 - GT): 50.00 hours
150. 2025A - Gemini South - GS-2025A-Q-131 (Band 1): 2.70 hours
149. 2025A - Gemini South - GS-2025A-Q-226 (Band 2): 3.00 hours
148. 2025A - Gemini South - GS-2025A-Q-327 (Band 3): 11.00 hours
147. 2025A - CTIO/Blanco - 2025A-646244 (survey): 95.00 hours
146. 2024B - SOAR - 2024B-005: 60.00 hours
145. 2024B - Gemini South - GS-2024B-Q-416 (Band 4): 20.00 hours

144. 2024B - Gemini South - GS-2024B-Q-114 (Band 1 - GT): 50.00 hours
143. 2024B - Gemini South - GS-2024B-Q-321 (Band 3): 8.00 hours
142. 2024B - CTIO/Blanco - 2024B-646244 (survey): 90.00 hours
141. 2024A - SOAR - 2024A-004: 40.00 hours
140. 2024A - Gemini South - GS-2024A-FT-115 (Fast Turnaround): 5.44 hours
139. 2024A - CTIO/Blanco - 2024A-646244 (survey): 85.00 hours
138. 2024A - Gemini South - GS-2024A-Q-109 (Band 1): 3.80 hours
137. 2024A - Gemini South - GS-2024A-Q-112 (Band 1 - GT): 50.00 hours
136. 2024A - Gemini South - GS-2024A-Q-130 (Band 1): 13.00 hours
135. 2024A - Gemini South - GS-2024A-Q-206 (Band 2): 21.20 hours
134. 2024A - Gemini South - GS-2024A-Q-225 (Band 2): 16.00 hours
133. 2024A - Gemini South - GS-2024A-Q-233 (Band 2): 1.10 hours
132. 2024A - Gemini South - GS-2024A-Q-324 (Band 3): 4.50 hours
131. 2024A - Gemini South - GS-2024A-Q-333 (Band 3): 3.41 hours
130. 2023B - CTIO/Blanco - 2023B-646244 (survey): 65.00 hours
129. 2023B - Southern African Large Telescope - 2023-2-SCI-005: 14.5 hours
128. 2023B - Gemini South - GS-2023B-FT-210 (Fast Turnaround): 6.84 hours
127. 2023B - Gemini South - GS-2023B-Q-107 (Band 1): 20.00 hours
126. 2023B - Gemini South - GS-2023B-Q-309 (Band 3): 4.09 hours
125. 2023B - Gemini South - GS-2023B-Q-322 (Band 3): 5.06 hours
124. 2023A - SOAR - 2023A-003: 70.00 hours
123. 2023A - Southern African Large Telescope - 2023-1-SCI-007: 8.85 hours
122. 2023A - Gemini South - GS-2023A-Q-412 (Band 4): 42.00 hours
121. 2022B - SOAR - 2022B-006: 70.00 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: 8.00 hours
115. 2022A - SOAR - 2022A-006: 40.00 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

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- 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

106. Origin of Elements and Cosmic Evolution – Workshop  
*Neutron-capture in the wild: Finding R-Process Enhanced Metal-Poor Stars in the Milky Way*
105. Origin of Elements and Cosmic Evolution – Pre-Workshop School  
*Stellar Genealogy: Metal-Poor Stars as Probes of the Chemical Evolution of the Universe*
104. Kartchner Caverns State Park – Discovery Center Science Talk  
*A tale of two stars: Revealing the Age and Chemical Evolution of the Universe*
103. Kitt Peak National Observatory – Kitt Peak Visitor Center Docent Meeting  
*Astronomer by Accident: How Serendipity and Diligence Can Shape a Career*
102. S-PLUS Collaboration – Bi-weekly Science Seminar Series  
*The DECam MAGIC Survey: Spectroscopic Follow-up of the Most Metal-poor Stars in the Distant Milky Way Halo – Going on an Informed Fishing Expedition*
101. Kitt Peak National Observatory – Docent in Training Program  
*Spectroscopy for people in a hurry*
100. The 2nd IReNA-Ukakuren Joint Workshop “Advancing Nuclear Astrophysics and Beyond”  
*Neutron-capture in the wild: finding r-process enhanced metal-poor stars in the Milky Way*
99. AAS 246 - Stars, Cool Dwarfs, Brown Dwarfs Session  
*Finding Extremely and Ultra Metal-Poor Stars using Narrowband Photometry from the MAGIC Survey*
98. Kavli Institute for Cosmological Physics | The University of Chicago - Open Group Seminars  
*BD+44° 493: Where Near Field Cosmology Meets Exoplanet Science*
97. WIYN Board Meeting – Lunch Science Presentation  
*BD+44° 493: Chemo-Dynamics and Constraints on Companion Planetary Masses from WIYN/NEID Spectroscopy*
96. Huachuca Astronomy Club – Monthly Science Presentation  
*A tale of two stars: Revealing the Age and Chemical Evolution of the Universe*
95. Kitt Peak National Observatory – Docent in Training Program  
*Spectroscopy (a.k.a. the study of rainbows)*
94. AAS 245 - A conversation about the Gemini Observatory Strategic Plan for the 2030s  
*GHOST Reduced Data Products for the Gemini Observatory Community and Beyond*
93. 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

92. NSF NOIRLab – Users Committee for NOIRLab (UCN)  
*Aspects of Data Reduction Support at NOIRLab*
91. Kitt Peak National Observatory – Docent in Training Program  
*Spectroscopy for People in a Hurry*
90. Nuclear Physics in Astrophysics XI  
*Neutron-capture in the wild: finding r-process enhanced metal-poor stars in the Milky Way and beyond*
89. Rare Gems in Big Data  
*Stellar Genealogy: Rare Gems in the Milky Way as Probes of the Chemical Evolution of the Universe*
88. 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*
75. 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 [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](#)
- [\*\*60.\*\* 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](#)
- [\*\*57.\*\* 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**

- [\*\*54.\*\* 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*
46. 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<sup>nd</sup> Virtual Meeting  
*J-PLUS Stellar Parameter Value Added Catalog*
42. 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*
41. JINA-CEE Frontiers in Nuclear Astrophysics – *Main Conference*  
*Observational constraints on the origin of the elements: from First stars to Neutron-Star mergers*
40. 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 Astronomía – 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
30. 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

- 26. University of Notre Dame – *Astrophysics Seminar*  
*A Monte Carlo approach to find the Progenitors of Ultra Metal-Poor Stars*
- 25. 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*
- 22. 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*
- 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*
- 9. 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 Hierarchical 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*
1. 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

- 2025– Debasish Hazarika (University of Atacama, Chile - Visiting Student at NSF NOIRLab)  
2023–2024 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)  
2015–2020 Dmitrii Gudin (University of Notre Dame)  
2015–2020 Devin Whitten (University of Notre Dame)  
2015–2020 Kaitlin Rasmussen (University of Notre Dame)  
2015–2017 Geoffrey Lentner (University of Notre Dame)  
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  
2017 Jazmine Jefferson (University of Kansas - REU)  
2017 Derek Shank (Ohio Wesleyan University - DISC/REU) - [video report](#)  
2017 Diego Fernandez (University of Oregon - REU)  
2016 Travis Hodges (Austin Peay State University - DISC/REU)  
2016 Miguel Correa (San Diego State University - REU)  
2015 Siyu He (Xi'an Jiaotong University - REU)  
2012–2014 William Alves (Universidade de São Paulo)  
2008–2010 Rafael Santucci (Universidade de São Paulo)

## 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

- 2025 [Eduardo Machado Pereira](#) (Ph.D.)  
Observatório Nacional  
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 [Fabricia Oliveira Barbosa](#) (M.Sc.)  
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

##### **University of Notre Dame**

- 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)  
 $\text{\LaTeX}$ , OpenOffice, MS Office. Co-author of the  $\text{\LaTeX}$ 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:	<a href="http://vmplacco.github.io/">http://vmplacco.github.io/</a>
LinkedIn:	<a href="https://www.linkedin.com/in/vinicius-placco/">https://www.linkedin.com/in/vinicius-placco/</a>
GitHub:	<a href="https://github.com/vmplacco/">https://github.com/vmplacco/</a>
stackoverflow:	<a href="https://stackoverflow.com/users/5964833/vinicius-placco">https://stackoverflow.com/users/5964833/vinicius-placco</a>
pythonanywhere:	<a href="https://vplacco.pythonanywhere.com/">https://vplacco.pythonanywhere.com/</a>
Sample webpages/ side projects:	<a href="http://vmplacco.github.io/#resources">http://vmplacco.github.io/#resources</a>

### 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 Astrophysics 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

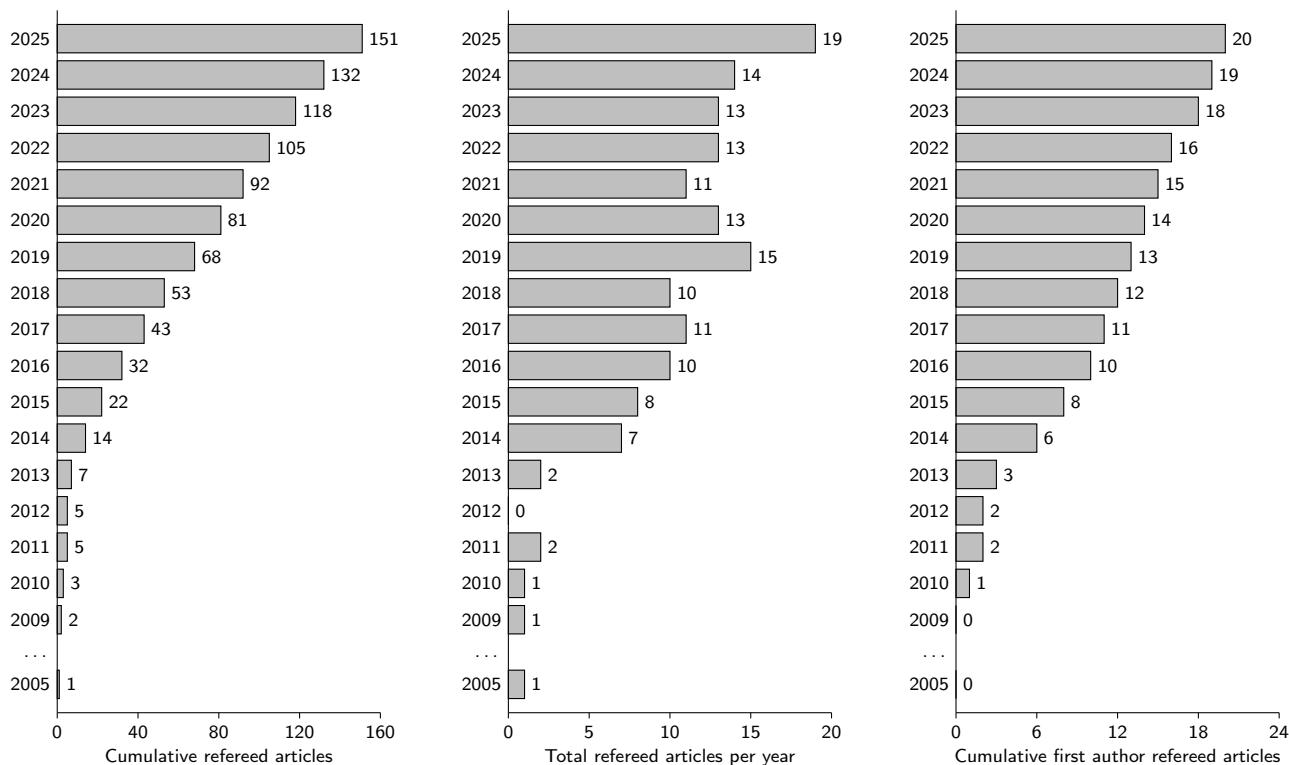
## Quantitative Indicators

- astrophysics data system (November 11, 2025 - [ADS link](#))
  - **10822 citations (1137 as first author)**
  - **h-index = 48 (18 as first author)**
  - **i10-index = 122 (19 as first author)**
- Google Scholar (November 11, 2025 - [Google Scholar link](#))
  - **12894 citations**
  - **h-index = 51**
  - **i10-index = 121**
- ADS Publication Lists
  - Complete - [ADS link](#)
  - Refereed only - [ADS link](#)
- ORCID iD - [0000-0003-4479-1265](#)

## Publication list

### Refereed articles

Total: 151 publications (incl. 20 first, 15 second, 18 third, and 15 fourth author articles)



**First Author (\* for relevant non-refereed publications)**

- 20.** **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., Martínez-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 MW Halo*  
**2025**, **The Astrophysical Journal**, in press
- 19.** **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](#))
- \* **Placco, V. M.**, Herrera, D., Merino, B. M., Hirst, P., Labrie, K., Simpson, C., Turner, J., Vacca, W. D., Deibert, E., Diaz, R., Heo, J., Kalari, V., Reggiani, H., Rodriguez, C., Ruiz-Carmona, R., Thomas-Osip, J.  
*GHOST Reduced Data Products for the Gemini Observatory Community and Beyond*  
**2024**, **Research Notes of the American Astronomical Society**, vol. 8, 12 ([ADS](#))
- 18.** **Placco, V. M.**, Almeida-Fernandes, F., Holmbeck, E. M., Roederer, I. U., Mardini, M. K., Hayes, C. R., Venn, K., Chiboucas, K., Deibert, E., Gamen, R., Heo, J., Jeong, M., Kalari, V., Martioli, E., Xu, S., Diaz, R., Gomez-Jimenez, M., Henderson, D., Prado, P., Quiroz, C., Ruiz-Carmona, R., Simpson, C., Urrutia, C., McConnachie, A. W., Pazder, J., Burley, G., Ireland, M., Waller, F., Berg, T. A. M., Robertson, J. G., Hartman, Z., Jones, D. O., Labrie, K., Perez, G., Ridgway, S., Thomas-Osip, J.  
*SPLUS J142445.34–254247.1: An R-Process Enhanced, Actinide-Boost, Extremely Metal-Poor star observed with GHOST*  
**2023**, **The Astrophysical Journal**, vol. 959, 60 ([ADS](#))
- 17.** **Placco, V. M.** & Stanghellini, L.  
*US National Gemini Office in the NOIRLab era*  
**2023**, **Journal of Astronomical Telescopes, Instruments, and Systems**, vol. 9, 7003 ([ADS](#))
- 16.** **Placco, V. M.**, Almeida-Fernandes, F., Arentsen, A., Lee, Y. S., Schoenell, W., Ribeiro, T., Kanaan, A.  
*Mining S-PLUS for Metal-Poor Stars in the Milky Way*  
**2022**, **The Astrophysical Journal Supplement Series**, vol. 262, 8 ([ADS](#))
- 15.** **Placco, V. M.**, Roederer, I. U., Lee, Y. S., Almeida-Fernandes, F., Herpich, F. R., Perottoni, H. D., Schoenell, W., Ribeiro, T., Kanaan, A.  
*SPLUS J210428.01–004934.2: An Ultra Metal-Poor Star Identified from Narrow-Band Photometry*  
**2021**, **The Astrophysical Journal Letters**, vol. 912, 32 ([ADS](#))
- \* **Placco, V. M.**, Sneden, C., Roederer, I. U., Lawler, J. E., Den Hartog, E. A., Hejazi, N., Maas, Z., Bernath, P.  
*linemake: an Atomic and Molecular Line List Generator*  
**2021**, **Research Notes of the American Astronomical Society**, vol. 5, 92 ([ADS](#) | [PDF](#))
- 14.** **Placco, V. M.**, Santucci, R. M., Yuan, Z., Mardini, M. K., Holmbeck, E. M., Wang, X., Surman, R., Hansen, T., Roederer, I. U., Beers, T., Choplin, A., Ji, A., Ezzeddine, R., Frebel, A., Sakari, C., Whitten, D., Zepeda, J.  
*The R-Process Alliance: The Peculiar Chemical Abundance Pattern of RAVE J183013.5–455510*  
**2020**, **The Astrophysical Journal**, vol. 897, 78 ([ADS](#))
- 13.** **Placco, V. M.**, Santucci, R. M., Beers, T. C., Chanamé, J., Sepúlveda, M. P., Coronado, J., Rossi, S., Lee, Y. S., Starkenburg, E., Youakim, K., Barrientos, M., Ezzeddine, R., Frebel, A., Hansen, T. T., Holmbeck, E. M., Ji, A. P., Rasmussen, K. C., Roederer, I. U., Sakari, C. M., Whitten, D. D.  
*The R-Process Alliance: Spectroscopic Follow-up of 857 Low-Metallicity Star Candidates from the Best & Brightest Survey*  
**2019**, **The Astrophysical Journal**, vol. 870, 122 ([ADS](#))

- 12.** [Placco, V. M.](#), Beers, T. C., Santucci, R. M., Chanamé, J., Sepúlveda, M. P., Coronado, J., Points, S. D., Kaleida, C. C., Rossi, S., Kordopatis, G., Lee, Y. S., Matijević, G., Frebel, A., Hansen, T. T., Holmbeck, E. M., Rasmussen, K. C., Roederer, I. U., Sakari, C. M., Whitten, D. D.  
*Spectroscopic Validation of Low-Metallicity Stars from RAVE*  
**2018**, **The Astronomical Journal**, vol. 155, 256 ([ADS](#))
- 11.** [Placco, V. M.](#), Holmbeck, E. M., Frebel, A., Beers, T. C., Surman, R. A., Ji, A. P., Ezzedine, R., Points, S. D., Kaleida, C. C., Hansen, T. T., Sakari, C. M., Casey, A. R.  
*RAVE J203843.2–002333: The First Highly R-process-enhanced Star Identified in the RAVE Survey.*  
**2017**, **The Astrophysical Journal**, vol. 844, 18 ([ADS](#))
- 10.** [Placco, V. M.](#), Frebel, A., Beers, T. C., Yoon, J., Chiti, A., Heger, A. Chan, C., Casey, A. R., Christlieb, N.  
*Observational Constraints on First-Star Nucleosynthesis. II. Spectroscopy of an Ultra Metal-Poor CEMP-no Star*  
**2016**, **The Astrophysical Journal**, vol. 833, 21 ([ADS](#))
- 9.** [Placco, V. M.](#), Beers, T. C., Reggiani, H., Meléndez, J.  
*G64–12 and G64–37 are Carbon-Enhanced Metal-Poor Stars*  
**2016**, **The Astrophysical Journal Letters**, vol. 829, 24 ([ADS](#))
- 8.** [Placco, V. M.](#), Beers, T. C., Ivans, I. I., Filler, D., Imig, J. A., Roederer, I., Abate, C., Hansen, T., Cowan, J., Frebel, A., Lawler, J. E., Schatz, H., Sneden, C., Sobeck, J., Aoki, W., Smith, V. V., Bolte, M.  
*Hubble Space Telescope Near-Ultraviolet Spectroscopy of the Bright CEMP-s Stars*  
**2015**, **The Astrophysical Journal**, vol. 812, 109 ([ADS](#))
- 7.** [Placco, V. M.](#), Frebel, A., Lee, Y. S., Jacobson, H. R., Beers, T. C., Pena, J. M., Chan, C., Heger, A.  
*Metal-poor Stars Observed with the Magellan Telescope. III. New Extremely and Ultra Metal-Poor Stars from SDSS/SEGUE and Insights on the Formation of Ultra Metal-Poor Stars*  
**2015**, **The Astrophysical Journal**, vol. 809, 136 ([ADS](#))
- 6.** [Placco, V. M.](#), Beers, T. C., Frebel, A., Stancliffe R.  
*Carbon-Enhanced Metal-Poor Star Frequencies in the Galaxy: Corrections for the Effect of Evolutionary Status on Carbon Abundances*  
**2014**, **The Astrophysical Journal**, vol. 797, 21 ([ADS](#))
- 5.** [Placco, V. M.](#), Beers, T. C., Roederer, I., Cowan, J., Frebel, A., Filler, D., Ivans, I. I., Lawler, J. E., Schatz, H., Sneden, C., Sobeck, J., Aoki, W., Smith, V. V.  
*Hubble Space Telescope Near-Ultraviolet Spectroscopy of the Bright CEMP-no Star BD+44° 493*  
**2014**, **The Astrophysical Journal**, vol. 790, 34 ([ADS](#))
- 4.** [Placco, V. M.](#), Frebel, A., Beers, T. C., Christlieb, N., Lee, Y. S., Kennedy, C. R., Rossi, S., Santucci, R.  
*Metal-poor Stars Observed with the Magellan Telescope. II. Discovery of Four Stars with  $[Fe/H] \leq -3.5$*   
**2014**, **The Astrophysical Journal**, vol. 781, 40 ([ADS](#))
- 3.** [Placco, V. M.](#), Frebel A., Beers T. C., Karakas A., Kennedy C. R., Rossi S., Christlieb N., Stancliffe R.  
*Metal-Poor Stars Observed with the Magellan Telescope I. Constraints on Progenitor Mass and Metallicity of AGB Stars Undergoing s-Process Nucleosynthesis*  
**2013**, **The Astrophysical Journal**, vol. 770, 104 ([ADS](#))
- 2.** [Placco, V. M.](#), Kennedy C.R., Beers T.C., Christlieb N., Rossi S., Sivarani T., Lee Y.S., Reimers D., Wisotzki L.  
*Searches for Metal-Poor Stars from the Hamburg/ESO Survey using the CH G-band*  
**2011**, **The Astronomical Journal**, vol. 142, 188 ([ADS](#))
- 1.** [Placco, V. M.](#), Kennedy C.R., Rossi S., Beers T.C., Lee Y.S., Christlieb N., Sivarani T., Reimers D., Wisotzki L.  
*A Search for Unrecognized Carbon-Enhanced Metal-Poor Stars in the Galaxy*  
**2010**, **The Astronomical Journal**, vol. 139, 1051 ([ADS](#))

**Second Author (\* for relevant non-refereed publications)**

15. Roederer, I. U., **Placco, V. M.**, Karakas, A. I., Den Hartog, E. A., Beers, T. C.  
*Abundances of Rarely Detected s-process Elements Derived from the Ultraviolet Spectrum of the s-process-enhanced Metal-poor Star HD 196944*  
**2025**, *The Astrophysical Journal*, in press
14. Limberg, G., **Placco, V. M.**, Ji, A. P., Yao, Y., Chiti, A., Mardini, M. K., Frebel, A., Rossi, S.  
*Discovery of an [Fe/H]~ -4.8 Star in Gaia XP Spectra*  
**2025**, *The Astrophysical Journal Letters*, vol. 989, 18 ([ADS](#))
- \* Fitzpatrick, M., **Placco, V. M.**, Bolton, A., Merino, B., Ridgway, S., Stanghellini, L.  
*Modernizing IRAF to Support Gemini Data Reduction*  
**2024**, *Astronomical Data Analysis Software & Systems XXXIII* ([ADS](#) | [Preprint](#))
13. Perottoni, H. D., **Placco, V. M.**, Almeida-Fernandes, F., Herpich, F. R., Rossi, S., Beers, T., Smiljanic, R., Amarante, J., Limberg, G., Werle, A., Rocha-Pinto, H., Beraldo e Silva, L., Daflon, S., Alvarez-Candal, A., Schoenell, W., Ribeiro, T., Kanaan, A.  
*The S-PLUS Ultra-Short Survey: First Data Release*  
**2024**, *Astronomy & Astrophysics*, vol. 691, 138 ([ADS](#))
12. Almeida-Fernandes, F., **Placco, V. M.**, Rocha-Pinto, H. J., Borges Fernandes, M., Limberg, G., Beraldo e Silva, L., Amarante, J., Perottoni, H. D., Overzier, R., Schoenell, W., Ribeiro, T., Kanaan, A., Mendes de Oliveira, C.  
*Chemodynamical Properties and Ages of Metal-Poor Stars in S-PLUS*  
**2023**, *Monthly Notices of the Royal Astronomical Society*, vol. 523, 2934 ([ADS](#))
11. Arentsen, A., **Placco, V. M.**, Lee, Y. S., Aguado, D. S., Martin, N. F., Starkenburg, E., Yoon, J.  
*On the inconsistency of [C/Fe] abundances and the fractions of carbon-enhanced metal-poor stars among various stellar surveys*  
**2022**, *Monthly Notices of the Royal Astronomical Society*, vol. 515, 4082 ([ADS](#))
10. Whitten, D. D., **Placco, V. M.**, Beers, T., An, D., Lee, Y. S., Almeida-Fernandes, F., Herpich, F., Daflon, S., Barbosa, C., Perottoni, H., Rossi, S., Tissera, P., Yoon, J., Schoenell, W., Ribeiro, T., Kanaan, A., Youakim, K.  
*The Photometric Metallicity and Carbon Distributions of the Milky Way's Halo and Solar Neighborhood from S-PLUS Observations of SDSS Stripe 82*  
**2021**, *The Astrophysical Journal*, vol. 912, 147 ([ADS](#))
9. Mardini, M. K., **Placco, V. M.**, Meiron, Y., Ishchenko, M., Avramov, B., Mazzarini, M., Berczik, P., Arca Sedda, M., Beers, T. C., Frebel, A., Taani, A., Donnari, M., Al-Wardat, M. A., Zhao, G.  
*Cosmological Insights into the Early Accretion of r-Process-Enhanced stars. I. A Comprehensive Chemodynamical Analysis of LAMOST J1109+0754*  
**2020**, *The Astrophysical Journal*, vol. 903, 88 ([ADS](#))
8. Mardini, M. K., **Placco, V. M.**, Taani, A., Li, H., Zhao, G.  
*Metal-Poor Stars Observed with the Automated Planet Finder Telescope. II. Chemodynamical Analysis of Six Low-Metallicity Stars in the Halo System of the Milky Way*  
**2019**, *The Astrophysical Journal*, vol. 882, 27 ([ADS](#))
7. Whitten, D. D., **Placco, V. M.**, Beers, T. C., Chies-Santos, A. L., Bonatto, C., Varela, J., Cristóbal-Hornillos, D., Ederoclite, A., Akras, S., Caballero, J. A., Coelho, P., Costa-Duarte, M. V., Borges Fernandes, M., Lopes de Oliveira, R., Orsi, A. A., Vázquez Ramió, H., Rossi, S., Cenarro, A. J., Daflon, S., Dupke, R. A., Marín-Franch, A., Mendes de Oliveria, C., Moles, M., Sodré, L.  
*J-PLUS: Identification of Low-Metallicity Stars with Artificial Neural Networks using SPHINX*  
**2019**, *Astronomy & Astrophysics*, vol. 622, A182 ([ADS](#))
6. Sakari, C. M., **Placco, V. M.**, Farrell, E. M., Roederer, I. U., Wallerstein, G., Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T. T., Holmbeck, E. M., Sneden, C., Cowan, J. J., Venn, K. A., Davis, C. E., Matijević, G., Wyse,

- R., Bland-Hawthorn, J., Chiappini, C., Freeman, K. C., Gibson, B. K., Grebel, E. K., Helmi, A., Kordopatis, G., Kunder, A., Navarro, J., Reid, W., Seabroke, G., Steinmetz, M., Watson, F.  
*The R-Process Alliance: First Release from Northern Search for R-Process-Enhanced Stars in the Galactic Halo*  
**2018**, *The Astrophysical Journal*, in vol. 868, 110 ([ADS](#))
5. Sakari, C. M., **Placco, V. M.**, Hansen, T. T., Holmbeck, E. M., Beers, T. C., Frebel, A. F., Roederer, I. U., Venn, K. A., Wallerstein, G., Davis, C. E., Farrell, E., Yong, D.  
*The r-process Pattern of a Bright, Highly r-process-enhanced Metal-poor Halo Star at [Fe/H]~ -2*  
**2018**, *The Astrophysical Journal Letters*, vol. 854, 20 ([ADS](#))
4. Beers, T. C., **Placco, V. M.**, Carollo, D., Rossi, S., Lee, Y. S., Frebel, A., Norris, J. E., Dietz, S., Masseron, T.  
*Bright Metal-Poor Stars from the Hamburg/ESO Survey. II. A Chemodynamical Analysis*  
**2017**, *The Astrophysical Journal*, vol. 835, 81 ([ADS](#))
3. Roederer, I. U., **Placco, V. M.**, Beers, T. C.  
*Detection of Phosphorus, Sulphur, and Zinc in the Carbon-Enhanced Metal-Poor Star BD+44°493*  
**2016**, *The Astrophysical Journal Letters*, vol. 824, 19 ([ADS](#))
2. Meléndez, J., **Placco, V. M.**, Tucci-Maia, M., Ramírez, I., Li, T. S., Perez, G.,  
*2MASS J1808-5104: The Brightest (V=11.9) Ultra Metal-Poor Star*  
**2016**, *Astronomy & Astrophysics - Letter to the Editor*, vol. 585, L5 ([ADS](#))
1. Santucci, R. M., **Placco, V. M.**, Rossi, S., Beers, T. C., Reggiani, H. M., Lee, Y. S., Xue, X. X., Carollo, D.  
*The Frequency of Field Blue-Straggler Stars in the Thick Disk and Halo System of the Galaxy*  
**2015**, *The Astrophysical Journal*, vol. 801, 116 ([ADS](#))
- n<sup>th</sup> Author**
116. Tan, C. Y., Cerny, W., Pace, A. B., Sharp, J. A., Overdeck, K., Drlica-Wagner, A., Simon, J. D., Mutlu-Pakdil, B., Sand, D. J., Senkevich, A. M., Erkal, D., Ferguson, P. S., Sobreira, F., Atzberger, K. R., Carlin, J. L., Chiti, A., Crnojević, D., Ji, A. P., Johnson, L. C., Li, T. S., Limberg, G., Martínez-Vázquez, C. E., Medina, G. E., **Placco, V. M.** et al.  
*Ultra-Faint Milky Way Satellites Discovered in Carina, Phoenix, and Telescopium with DELVE Data Release 3*  
**2025**, *The Astrophysical Journal*, submitted
115. Tan, C. Y., Drlica-Wagner, A., Pace, A. B., Cerny, W., Nadler, E. O., Doliva-Dolinsky, A., Li, T. S., Simon, J. D., Vivas, A. K., Walker, A. R., Adamow, M., Anbajagane, D., Bechtol, K., Carlin, J. L., Casey, Q. O., Chang, C., Chaturvedi, A., Cheng, T. -Y., Chiti, A., Choi, Y., Crnojević, D., Ferguson, P. S., Gruendl, R. A., Ji, A. P., Limberg, G., Medina, G. E., Mutlu-Pakdil, B., Overdeck, K., **Placco, V. M.** et al.  
*DELVE Milky Way Satellite Census I: Satellite Population and Survey Selection Function*  
**2025**, *The Astrophysical Journal*, submitted
114. Ederoclite, A., Vázquez Ramió, H., Alvarez-Candal, A., Siffert, B. B., **Placco, V. M.**, Morate, D., Pyrzas, S., López-Sanjuan, C., Mahlke, M., Kulkarni, S., Espinosa, L., Castro, M., Zacarias, B., Akhlaghi, M., Castillo, J., Civera, T., Hernández-Fuertes, J., Hernán-Caballero, A., López-Sainz, A., Lorenzetti, G., Muniesa-Gallardo, D., Moreno-Signes, A., Vives-Arias, H., Zaragoza Cardiel, J., Díaz-Martín, M., Galindo-Guil, F., Iglesias-Marzoa, R., Infante-Sainz, R., Kuutma, T., Lacruz, E., Lamadrid-Gutierrez, J., López-Martínez, F., Maícas-Sacristan, N., Hernández Pérez, F., Carvano, J., Cruz, P., Herpich, F., Solano, E., Pala, A., Reis, R.  
*J-VAR: the northern variable sky in 7 filters – First Data Release*  
**2025**, *Astronomy & Astrophysics*, submitted
113. Heiger, M. E., Ji, A. P., Li, T. S., Simon, J. D., Limberg, G., Carballo-Bello, J., Cerny, W., Chaturvedi, A., Chiti, A., Choi, Y., Crnojević, D., Martínez-Vázquez, C. E., Medina, G. E., Mutlu-Pakdil, B., Navabi, M., Noël, N., Pace, A. B., **Placco, V. M.**, Riley, A. H., Sakowska, J., Stringfellow, G.  
*Not-so-heavy metal(s): Chemical Abundances in the Ultra-faint Dwarf Galaxies Eridanus IV and Centaurus I*  
**2025**, *The Astrophysical Journal*, submitted

112. Machado-Pereira, E., Daflon, S., **Placco, V. M.**, Cruz, P., Borges Fernandes, M., Jiménez-Esteban, F., Caballero, J. A., Anguiano, B., Yuan, H., Bonatto, C., Alvarez-Candal, A., Cenarro, J., Cristóbal-Hornillos, D., Hernández-Monteagudo, C., López-Sanjuan, C., Marín-Franch, A., Moles, M., Varela, J., Vázquez Ramió, H., Alcaniz, J., Dupke, R., Ederoclite, A., Sodré Jr., L., Angulo, R.  
*J-PLUS: Metallicity determination in open clusters using machine learning*  
**2025**, *Monthly Notices of the Royal Astronomical Society*, submitted
111. Barbosa, F., Chiti, A., Limberg, G., Pace, A., Cerny, W., Rossi, S., Carlin, J., Stringfellow, G., **Placco, V. M.**, Atzerberg, K., Carballo-Bello, J. A., Chaturvedi, A., Choi, Y., Crnojević, D., Drlica-Wagner, A., Ji, A., Kallivayalil, N., Martínez-Vázquez, C., Medina, G., Noël, N., Sand, D., Vivas, A. K., Bom, C., Ferguson, P., Mutlu-Pakdil, B., Navabi, M., Riley, A. H., Sakowska, J., Zenteno, A.  
*The DECam MAGIC Survey: A Wide-field Photometric Metallicity Study of the Sculptor Dwarf Spheroidal Galaxy*  
**2025**, *The Astrophysical Journal*, in press
110. 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*, vol. 990, 125 ([ADS](#))
109. Pace, A. B., Li, T. S., Ji, A. P., Simon, J. D., Cerny, W., Senkevich, A. M., Drlica-Wagner, A., Bechtol, K., Tan, C. Y., Chiti, A., Erkal, D., Martínez-Vázquez, C. E., Ferguson, P. S., Kron, R. G., Atzberger, K., Chaturvedi, A., Frieman, J. A., Kallivayalil, N., Limberg, G., Medina, G. E., **Placco, V. M.**, et al.  
*Spectroscopic Analysis of Pictor II: a very low metallicity ultra-faint dwarf galaxy bound to the LMC*  
**2025**, *The Open Journal of Astrophysics*, vol. 8, 112 ([ADS](#))
108. Barbuy, B., Ernandes, H., Friaça, A., Camargo, M., da Silva, P., Souza, S., Masseron, T., Brauner, M., García-Hernández, D., Fernández-Trincado, J., Cunha, K., Smith, V., Villegas, A., Chiappini, C., Queiroz, A., Santiago, B., Beers, T., Anders, F., Schiavon, R., Valentini, M., Minniti, D., Geisler, D., Souto, D., **Placco, V. M.**, et al.  
*Abundances of P, S, and K in 58 bulge spheroid stars from APOGEE*  
**2025**, *Astronomy & Astrophysics*, vol. 700, A184 ([ADS](#))
107. 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*  
**2025**, *The Astronomical Journal*, vol. 170, 37 ([ADS](#))
106. 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*, vol. 77, 502 ([ADS](#))
105. Quispe-Huynasi, F., Roig, F., Holanda, N., Tacuri, V., Eleutério, R., Pereira, C., 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](#))
104. 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.  
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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

*Researchers 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 desafia modelos atuais de evolução do Universo*

Revista FAPESP (in Portuguese)

*Fóssil Estelar*

Observatório Nacional (in Portuguese) - Audio interview

*Astrônomos descobrem estrela que desafia modelos atuais de evolução do Universo*

Revista Planeta (in Portuguese)

*Achada estrela que desafia 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*

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*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*

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