

# Curriculum Vitæ - Vinicius Moris Placco

last update: April 24, 2025  
(click [here](#) for the live version)

---

## Contents

<b>Personal information</b>	<b>2</b>
<b>Employment / Appointments</b>	<b>2</b>
<b>Education</b>	<b>3</b>
<b>Awards</b>	<b>3</b>
<b>Observatory Experience</b>	<b>4</b>
Leadership Roles/Service	4
Operations and Instrument/User Support	4
Observing Experience	5
<b>Research Experience</b>	<b>6</b>
Funding	6
Fellowships	7
Visiting Faculty/Postdoc/Graduate Student	7
Telescope time allocations	8
Principal Investigator	8
Co-Investigator	9
<b>Invited / Contributed Presentations</b>	<b>14</b>
<b>Academic Experience</b>	<b>19</b>
Student/Postdoc supervision	19
Committee Service	20
Thesis Defense Committee	20
Organizing Committee - Conferences and Workshops	20
Teaching	21
<b>Other relevant information</b>	<b>22</b>
Technical skills	22
Online Resources	22
Professional Affiliations/Service	22
<b>Quantitative Indicators</b>	<b>23</b>
<b>Publication list</b>	<b>23</b>
Refereed articles	23
Proceedings, non-refereed publications and abstracts	37
<b>Press releases, articles, and media resources</b>	<b>42</b>

## Personal information

Full name Vinicius [v-knee-see-uh-s] Moris Placco  
Languages Portuguese (native), English (fluent),  
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/>  
e-mail [vinicius.placco@noirlab.edu](mailto:vinicius.placco@noirlab.edu) | [vmplacco@gmail.com](mailto:vmplacco@gmail.com)

## 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 ([Javalambre Physics of the Accelerating Universe Survey](#))
- 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) [Science Team](#)
- 2017–present Subaru Telescope Proposal reviewer – category group: Normal Stars, Metal-Poor Stars
- 2017–present Member of the S-PLUS Advisory Committee ([Southern Photometric Local Universe Survey](#))
- 2017–present Principal Investigator of the S-PLUS Short Survey
  
- 2019–2020 Member of the NSF NOIRLab Time Allocation Committee - [Galactic Panel 2](#)
- 2017–2020 US representative for the Gemini Observatory Users Committee
- 2018–2019 Member of the NOAO Time Allocation Committee - [Galactic Panel 2](#)
- 2017–2018 Member of the Gemini OCS Upgrades Working Group
- 2018 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](mailto:usercomms@noirlab.edu) and [info@noirlab.edu](mailto: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

- 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  
Physics and Astronomy Department  
Funding: JINA (USA), FAPESP, PROEX (Brazil)

## Telescope time allocations

**Approved observing projects: 197**

**Total awarded: 7080.96 hours**

\*does not include time allocated through university partnerships

## Principal Investigator

**Approved observing projects: 52**

**Total awarded: 1783.30 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: 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

128. 2023B - CTIO/Blanco - 2023B-646244 (survey): 65.00 hours
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

- [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*
- 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 [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

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)  
2015–2020 Dmitrii Gudín (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

- 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)<br>Course Instructor Feedback: 5.0/5.0 - <a href="#">link to full report</a>                 |
|      | (LI) | Descriptive Astronomy (SP20-PHYS-10140)<br>Course Instructor Feedback: 5.0/5.0 - <a href="#">link to full report</a>                 |
|      | (LI) | General Physics B - E & M Laboratory (SP20-PHYS-11422)<br>Course Instructor Feedback: 5.0/5.0 - <a href="#">link to full report</a>  |
|      | (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)<br>Course Instructor Feedback: 5.0/5.0 - <a href="#">link to full report</a>      |
|      | (LI) | <a href="#">Descriptive Astronomy</a> (SU19-PHYS-10140)<br>Course Instructor Feedback: 5.0/5.0 - <a href="#">link to full report</a> |
| 2018 | (GL) | Descriptive Astronomy (FA18-PHYS-10140)  |
| 2017 | (CI) | Descriptive Astronomy (FA17-PHYS-10140)  |
|      | (LI) | General Physics B - E & M Laboratory (SP17-PHYS-11422)<br>Course Instructor Feedback: 4.8/5.0 - <a href="#">link to full report</a>  |
| 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)  
L<sup>A</sup>T<sub>E</sub>X, OpenOffice, MS Office. Co-author of the L<sup>A</sup>T<sub>E</sub>Xtemplate [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 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

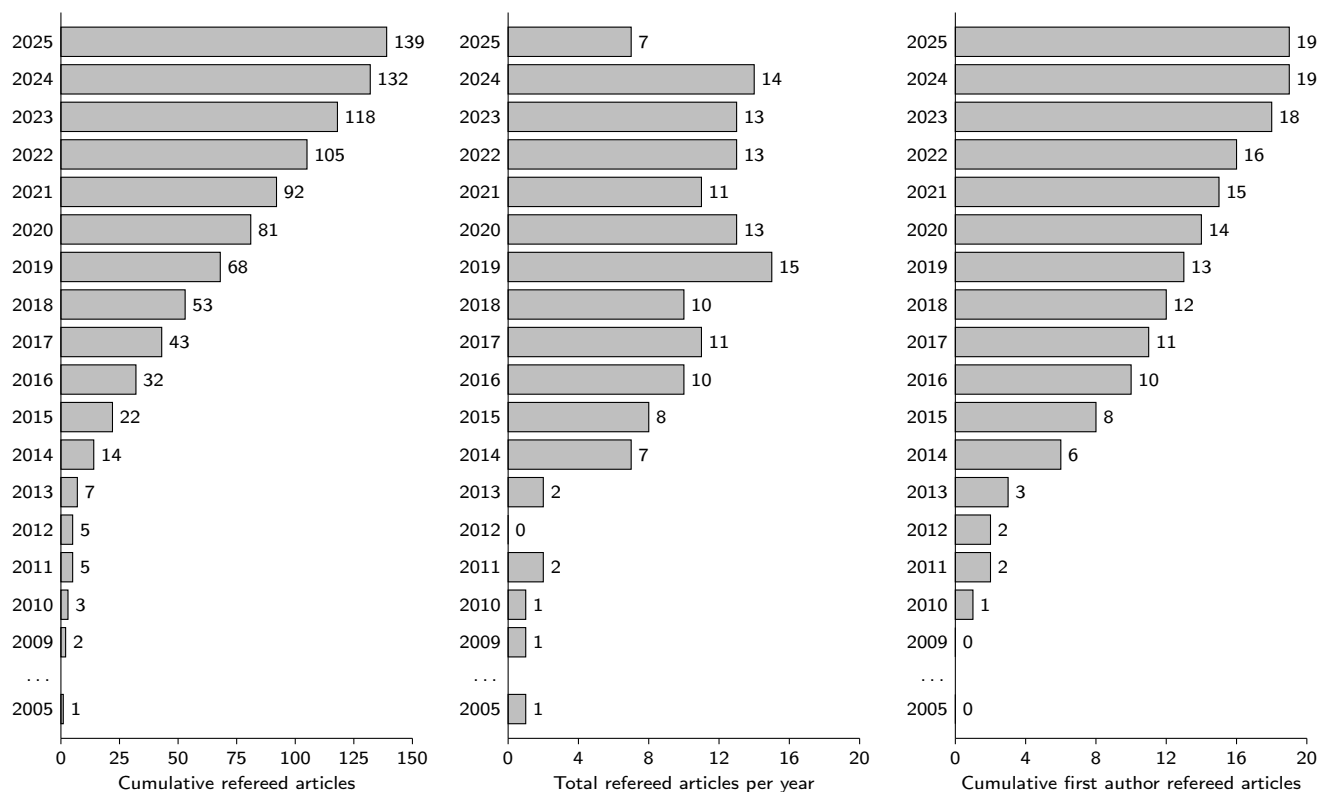
## Quantitative Indicators

- astrophysics data system (April 24, 2025 - [ADS link](#))
  - **citations**
  - **h-index = 45**
  - **i10-index = 114**
- Google Scholar (April 24, 2025 - [Google Scholar link](#))
  - **11704 citations**
  - **h-index = 50**
  - **i10-index = 112**
- ADS Publication Lists
  - Complete - [ADS link](#)
  - Refereed only - [ADS link](#)
- ORCID iD - [0000-0003-4479-1265](#)

## Publication list

### Refereed articles

Total: 139 publications (incl. 19 first, 13 second, 17 third, and 15 fourth author articles)



139. Bandyopadhyay, A., Ezzeddine, R., **Placco, V. M.**, Frebel, A., Roederer, I. U.  
*Probing Stellar Abundance Variations in NGC 2298: Unraveling the Origins of the R-process Enhancements Among its Multiple Stellar Populations*  
**2025, The Astrophysical Journal**, submitted
138. 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
137. 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, The Astrophysical Journal**, in press
136. 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
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., Akas, 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](#))
131. Barbuy, B., Friaça, A., Ernandes, H., da Silva, P., Souza, S., Fernández-Trincado, J., Cunha, K., Smith, V., Masseron, T., Pérez-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 iron-peak elements in 58 bulge spheroid stars from APOGEE*  
**2024, Astronomy & Astrophysics**, vol. 691, A296 ([ADS](#))



130. Herpich, F. R., Almeida-Fernandes, F., Oliveira Schwarz, G. B., Lima, E., Nakazono, L., Alonso-Garcia, J., Fonseca-Faria, M., Sartori, M., Bolutavicius, G., Fabiano de Souza, G., Hartmann, E., Li, L., Espinosa, L., Kanaan, A., Schoenell, W., Werle, A., Machado-Pereira, E., Gutierrez-Soto, L., Santos-Silva, T., Smith Castelli, A., Lacerda, E., Barbosa, C., Perottoni, H., Ferreira Lopes, C., Valença, R., Re Martho, P., Bom, C., Bonatto, C., Carvalho, M., Cernic, V., Coelho, P., Cortesi, A., Cubillos Palma, B., Ferreira Alberice, V., Huaynasi, F., Jacob Perin, G., Jaque Arancibia, M., Krabbe, A., Lima-Dias, C., Lomeli-Nunez, L., Lopes de Oliveira, R., Luiz Figueiredo, A., Losch, E., Navarete, F., Oliveira, J., Overzier, R., **Placco, V. M.**, et al.  
*The Fourth S-PLUS Data Release: 12-filter photometry covering 3000 square degrees in the Southern Hemisphere*  
**2024, Astronomy & Astrophysics**, vol. 689, 249 ([ADS](#))
129. Bandyopadhyay, A., Ezzeddine, R., Allende Prieto, C., Aria, N., Shah, S. P., Beers, T., Frebel, A., Holmbeck, E. M., Hansen, T. T., **Placco, V. M.**, Roederer, I. U., Sakari, C. M.  
*The R-Process Alliance: Fifth Data Release from the Search for R-process-enhanced Metal-poor Stars in the Galactic Halo with the Gran Telescopio Canarias*  
**2024, The Astrophysical Journal Supplement Series**, vol. 274, 39 ([ADS](#))
128. Kalari, V., Diaz, R., Robertson, J. G., McConnachie, A. W., Ireland, M., Salinas, R., Young, P., Simpson, C., Hayes, C. R., Nielsen, J., Burley, G., Pazder, J., Gomez-Jimenez, M., Martioli, E., Howell, S. B., Jeong, M., Juneau, S., Ruiz-Carmona, R., Margheim, S., Sheinis, A., Anthony, A., Baker, G., Berg, T. A. M., Cao, T., Chapin, E., Chin, T., Chiboucas, K., Churilov, V., Deibert, E. K., Densmore, A., Dunn, J., Edgar, M. L., Heo, J., Henderson, D., Farrell, T., Font, J., Firpo, V., Fuentes, J., Labrie, K., Lambert, S., Lawrence, J., Lothrop, J., McDermid, R., Miller, B. W., Perez, G., **Placco, V. M.**, Prado, P., Quiroz, C., Ramos, F., Rutten, R., Silva, K., Thomas-Osip, J., Urrutia, C., Vacca, W., Venn, K., Waller, F., Waller, L., White, M., Xu, S., Zhelem, R.  
*Gemini High-resolution Optical SpecTrograph (GHOST) at Gemini-South: Instrument performance and integration, first science, and next steps*  
**2024, The Astronomical Journal**, vol. 168, 208 ([ADS](#))
127. 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](#))
126. Kowkabany, J., Ezzeddine, R., Charbonnel, C., Roederer, I. U., Wang, E. X., Li, Y., Hackshaw, Z., Beers, T. C., Frebel, A., Hansen, T. T., Holmbeck, E. M., **Placco, V. M.**, Sakari, C. M.  
*Discovery of a Metal-Poor Red Giant Star with the Highest Ultralithium Enhancement*  
**2024, The Astrophysical Journal**, vol. 973, 125 ([ADS](#))
125. Deibert, E. K., Langeveld, A., Young, M. E., Flagg, L., Turner, J. D., de Mooij, E., Jayawardhana, R., Smith, P., Chiboucas, K., Gamen, R., Hayes, C. R., Heo, J., Jeong, M., Kalari, V., Martioli, E., **Placco, V. M.**, Venn, K., 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., Lee, J., Miller, B., Perez, G., Ridgway, S., Thomas-Osip, J.  
*Results from the GHOST/Gemini South System Verification Run: High-Resolution Dayside Spectroscopy of WASP-189b*  
**2024, The Astronomical Journal**, vol. 168, 148 ([ADS](#))
124. Roederer, I. U., Beers, T. C., Hattori, K., **Placco, V. M.**, Hansen, T. T., Ezzeddine, R., Frebel, A., Holmbeck, E., Sakari, C. M.  
*The R-Process Alliance: 2MASS J22132050–5137385, the Star with the Highest-known r-process Enhancement at  $[Eu/Fe] = +2.45$*   
**2024, The Astrophysical Journal**, vol. 971, 158 ([ADS](#))
123. Xylakis-Dornbusch, T., Hansen, T. T., Beers, T. C., Christlieb, N., Ezzeddine, R., Frebel, A., Holmbeck, E., **Placco, V. M.**, Roederer, I. U., Sakari, C. M., Sneden, C.

*The R-Process Alliance: Analysis of Limited-r Stars*

**2024**, **Astronomy & Astrophysics**, vol. 688, 123 ([ADS](#))

122. Shah, S., Ezzeddine, R., Roederer, I. U., Hansen, T. T., **Placco, V. M.**, Beers, T. C., Frebel, A., Ji, A. P., Holmbeck, E. M., Marshall, J., Sakari, C. M.

*The R-Process Alliance: Detailed Chemical Composition of an R-Process Enhanced Star with UV and Optical Spectroscopy*

**2024**, **Monthly Notices of the Royal Astronomical Society**, vol. 529, 1917 ([ADS](#))

121. Dovgal, A., Venn, K., Sestito, F., Hayes, C., McConnachie, A., Navarro, J., **Placco, V. M.**, Starkenburg, E., Martin, N. F., Pazder, J., 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., Robertson, J., Ruiz-Carmona, R., Simpson, C., Urrutia, C., Waller, F., Berg, T., Burley, G., Hartman, Z., Ireland, M., Margheim, S., Perez, G., Thomas-Osip, J.

*Probing the early Milky Way with GHOST spectra of an extremely metal-poor star in the Galactic disk*

**2024**, **Monthly Notices of the Royal Astronomical Society**, vol. 527, 7810 ([ADS](#))

120. Quispe-Huaynasi, F., Roig, F., **Placco, V. M.**, Beraldo e Silva, L., Pereira, C. B., Daflon, S., Kanaan, A., Mendes de Oliveira, C., Ribeiro, T., Schoenell, W.

*Characterisation of high velocity stars in the S-PLUS internal fourth data release*

**2024**, **Monthly Notices of the Royal Astronomical Society**, vol. 527, 6173 ([ADS](#))

119. Spalding, E., Wilhelm, R., De Lee, N., Long, S., Beers, T. C., **Placco, V. M.**, Kielkopf, J., Lee, Y. S., Pepper, J., Carrell, K.

*RRLFE: Software for Generating and Applying Metallicity Calibrations for RR Lyrae Variable Stars Across a Wide Range of Phases and Temperatures*

**2024**, **Monthly Notices of the Royal Astronomical Society**, vol. 527, 828 ([ADS](#))

- 118**. **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](#))

117. Roederer, I. U., Vassh, N., Holmbeck, E. M., Mumpower, M. R., Surman, R., Cowan, J. J., Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T. T., **Placco, V. M.**, Sakari, C. M.

*Element abundance patterns in stars indicate fission of nuclei heavier than uranium*

**2023**, **Science**, vol. 382, 1177 ([ADS](#))

116. Barbuy, B., Friaça, A., Ernandes, H., Moura, T., Masseron, T., Cunha, K., Smith, V., Souto, D., Pérez-Villegas, A., Souza, S., Chiappini, C., Queiroz, A., Fernández-Trincado, J., da Silva, P., Santiago, B., Anders, F., Schiavon, R., Valentini, M., Minniti, D., Geisler, D., **Placco, V. M.**, et. al.

*Light elements Na and Al in 58 bulge spheroid stars from APOGEE*

**2023**, **Monthly Notices of the Royal Astronomical Society**, vol. 526, 2365 ([ADS](#))

115. Roederer, I. U., Pace, A., **Placco, V. M.**, Caldwell, N., Koposov, S., Mateo, M., Olszewski, E., Walker, M.

*Abundance Analysis of Stars at Large Radius in the Sextans Dwarf Spheroidal Galaxy*

**2023**, **The Astrophysical Journal**, vol. 954, 55 ([ADS](#))

114. 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](#))

113. Abuchaim, Y., Perottoni, H. D., Rossi, S., Limberg, G., Pérez-Villegas, A., Santucci, R. M., **Placco, V. M.**, Sales-Silva, J. V., Anders, F., Rocha-Pinto, H.  
*The Chemodynamical Nature of the Triangulum-Andromeda Overdensity*  
**2023, The Astrophysical Journal**, vol. 949, 48 ([ADS](#))
112. Quispe-Huaynasi, F., Roig, F., Daflon, S., Pereira, C., **Placco, V. M.**, Jiménez-Esteban, F., Galindo-Guil, F., Alvarez-Candal, A., Alcaniz, J., Angulo, R., Cenarro, J., Cristóbal-Hornillos, D., Dupke, R., Ederoclite, A., Hernández-Monteagudo, C., López-Sanjuan, C., Marín-Franch, A., Moles, M., Sodr   Jr., L., V  zquez Ram  o, H.  
*J-PLUS: characterisation of high velocity stars in the second data release*  
**2023, Monthly Notices of the Royal Astronomical Society**, vol. 522, 3898 ([ADS](#))
111. Jeong, M., Lee, Y. S., Beers, T. C., **Placco, V. M.**, Kim, Y. K., Koo, J.-R., Lee, H.-G., Yang, S.-C.  
*Search for Extremely Metal-Poor Stars with GEMINI-N/GRACES I. Chemical-abundance Analysis*  
**2023, The Astrophysical Journal**, vol. 948, 38 ([ADS](#))
110. Zepeda, J., Beers, T. C., **Placco, V. M.**, Shank, D., Gudin, D., Hirai, Y., Yoon, J., Mardini, M., Pifer, C., Catapano, T., Calagna, S.  
*Chemo-Dynamically Tagged Groups of CEMP Stars in the Halo of the Milky Way. I. Untangling the Origins of CEMP-s and CEMP-no Stars*  
**2023, The Astrophysical Journal**, vol. 947, 23 ([ADS](#))
- 109. 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](#))
108. Garro, E. R., Fern  ndez-Trincado, J. G., Minniti, D., Moya, W. H., Palma, T., Beers, T. C., **Placco, V. M.**, Barbuy, B., Sneden, C., Alves-Brito, A., Dias, B., Af  sar, M., Frel  j, H., Lane, R. R.  
*Gaia-IGRINS synergy: Orbits of Newly Identified Milky Way Star Clusters*  
**2023, Astronomy & Astrophysics**, vol. 669, A136 ([ADS](#))
107. Shank, D., Beers, T., **Placco, V. M.**, Gudin, D., Catapano, T., Holmbeck, E. M., Ezzeddine, R., Roederer, I. U., Sakari, C. M., Frebel, A., Hansen, T. T.  
*The R-Process Alliance: Chemo-Dynamically Tagged Groups II. Extended Sample of Halo r-Process-Enhanced Stars*  
**2023, The Astrophysical Journal**, vol. 943, 23 ([ADS](#))
106. Yuan, H. -B., Yang, L., Cruz, P., Jim  nez-Esteban, F., Daflon, S., **Placco, V. M.**, Akas, S., Alfaro, E. J., Galarza, C. A., Gon  alves, D., Liu, J. -F., Cenarro, A., Mar  n-Franch, A., Varela, J., Ederoclite, A., L  pez-Sanjuan, C., Abramo, R., Alcaniz, J., Ben  tez, N., Bonoli, S., Crist  bal-Hornillos, D., Dupke, R. A., Hern  n-Caballero, A., Mendes de Oliveira, C., Moles, M., Sodr   Jr., L., V  zquez Ram  o, H., Taylor, K.  
*The miniJPAS survey: stellar atmospheric parameters from 56 optical filters*  
**2023, Monthly Notices of the Royal Astronomical Society**, vol. 518, 2018 ([ADS](#))
105. Schatz, H., Becerril Reyes, A. D., Best, A., Brown, E. F., Chatzioannou, K., Chipps, K. A., Deibel, C. M., Ezzeddine, R., Galloway, D. K., Hansen, C. J., Herwig, F., Ji, A. P., Lugaro, M., Meisel, Z., Norman, D., Read, J. S., Roberts, L. F., Spyrou, A., Tews, I., Timmes, F. X., Travaglio, C., Vassh, N., Abia, C., Adsley, P., Agarwal, S., Aliotta, M., Aoki, W., Arcones, A., Aryan, A., Bandyopadhyay, A., Banu, A., Bardayan, D. W., Barnes, J., Bauswein, A., Beers, T. C., Bishop, J., Boztepe, T., C  t  , B., Caplan, M. E., Champagne, A. E., Clark, J. A., Couder, M., Couture, A., de Mink, S. E., Debnath, S., deBoer, R. J., den Hartogh, J., Denissenkov, P., Dexheimer, V., Dillmann, I., Escher, J. E., Famiano, M. A., Farmer, R., Fisher, R., Fr  hlich, C., Frebel, A., Fryer, C., Fuller, G., Ganguly, A. K., Ghosh, S., Gibson, B., Gorda, T., Gourgouliatos, K., Graber, V., Gupta, M., Haxton, W., Heger, A., Hix, W. R., Ho, W. C., Holmbeck, E. M., Hood, A., Huth, S., Imbriani, G., Izzard, R., Jain, R., Jayatissa, H., Johnston, Z., Kajino, T., Kankainen, A., Kiss, G., Kwiatkowski, A., La Cognata, M., Laird, A., Lamia, L., Landry, P., Laplace, E., Launey, K., Leahy, D., Leckenby, G., Lennarz, A., Longfellow, B., Lovell, A., Lynch, W., Lyons, S., Maeda, K., Masha, E., Matei, C., Merc, J., Messer, B., Montes, F., Mukherjee, A., Mumpower, M., Neto, D., Nevins, B., Newton, W., Nguyen, L. Q., Nishikawa, K., Nishimura, N., Nunes, F.,

- O'Connor, E., O'Shea, B., Ong, W.-J., Pain, S., Pajkos, M., Pignatari, M., Pizzone, R., **Placco, V. M.**, et al.  
*Horizons: Nuclear Astrophysics in the 2020s and Beyond*  
**2022**, *Journal of Physics G*, vol. 49, 110502 ([ADS](#))
104. Razera, R., Barbuy, B., Moura, T., Ernandes, H., Pérez-Villegas, A., Souza, S. O., Chiappini, C., Queiroz, A. B. A., Anders, F., Fernández-Trincado, J. G., Friaça, A. C. S., Cunha, K., Smith, V. V., Santiago, B. X., Schiavon, R. P., Valentini, M., Minniti, D., Schultheis, M., Geisler, D., Sobeck, J., **Placco, V. M.**, Zoccali, M.  
*Abundance analysis of 58 APOGEE metal-poor spheroid bulge stars*  
**2022**, *Monthly Notices of the Royal Astronomical Society*, vol. 517, 4590 ([ADS](#))
103. Mardini, M., Frebel, A., Ezzeddine, R., Chiti, A., Meiron, Y., Ji, A., **Placco, V. M.**, Roederer, I., Meléndez, J.  
*The chemical abundance pattern of the extremely metal-poor thin disc star 2MASS J1808–5104 and its origins*  
**2022**, *Monthly Notices of the Royal Astronomical Society*, vol. 517, 3993 ([ADS](#))
- [102](#). **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](#))
101. Roederer, I. U., Cowan, J. J., Pignatari, M., Beers, T. C., Den Hartog, E. A., Ezzeddine, R., Frebel, A., Hansen, T. T., Holmbeck, E. M., Mumpower, M. R., **Placco, V. M.**, Sakari, C. M., Surman, R., Vassh, N.  
*The R-Process Alliance: Abundance Universality among Some Elements at and between the First and Second R-Process Peaks*  
**2022**, *The Astrophysical Journal*, vol. 936, 84 ([ADS](#))
100. 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](#))
99. Shank, D., Komater, D., Beers, T., **Placco, V. M.**, Huang, Y.  
*Dynamically Tagged Groups of Metal-Poor Stars II. The Radial Velocity Experiment Data Release 6*  
**2022**, *The Astrophysical Journal Supplement Series*, vol. 261, 19 ([ADS](#))
98. Roederer, I. U., Lawler, J. E., Den Hartog, E. A., **Placco, V. M.**, Surman, R., Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T. T., Hattori, K., Holmbeck, E. M., Sakari, C. M.  
*The R-Process Alliance: A Nearly Complete R-Process Abundance Template Derived from Ultraviolet Spectroscopy of the R-Process-Enhanced Metal-Poor Star HD 222925*  
**2022**, *The Astrophysical Journal Supplement Series*, vol. 260, 27 ([ADS](#))
97. Aoki, W., Beers, T. C., Honda, S., Ishikawa, H. T., Matsuno, T., **Placco, V. M.**, Yoon, J., Harakawa, H., Hirano, T., Hodapp, K., Ishizuka, M., Jacobson, S., Kotani, T., Kudo, T., Kurokawa, Y., Kuzuhara, M., Nishikawa, J., Omiya, M., Serizawa, T., Tamura, M., Ueda, A., Vievard, S.  
*Silicon and Strontium abundances of very metal-poor stars determined from near-infrared spectra*  
**2022**, *Publications of the Astronomical Society of Japan*, vol. 74, 273 ([ADS](#))
96. Zepeda, J., Rasmussen, K. C., Beers, T., **Placco, V. M.**, Huang, Y., Depagne, É.  
*Metal-Poor Stars Observed with the Southern African Large Telescope II. An Extended Sample*  
**2022**, *The Astrophysical Journal*, vol. 927, 13 ([ADS](#))([PDF](#))
95. Almeida-Fernandes, F., Sampedro, L., Herpich, F. R., Molino, A., Barbosa, C. E., Buzzo, M. L., Overzier, R. A., de Lima, E. V. R., Nakazono, L. M. I., Oliveira Schwarz, G. B., Perottoni, H. D., Bolutavicius, G. L., Gutiérrez-Soto, L. A., Santos-Silva, T., Vitorelli, A. Z., Werle, A., Whitten, D. D., Costa Duarte, M. V., Bom, C. R., Coelho, P., Sodré Jr., L., **Placco, V. M.**, Teixeira, G. S. M., Alonso-García, J., Beers, T. C., Kanaan, A., Ribeiro, T., Schoenell, W., Mendes de Oliveira, C.  
*Data Release 2 of S-PLUS: Accurate template-fitting based photometry covering 1000 deg<sup>2</sup> in 12 optical filters*  
**2022**, *Monthly Notices of the Royal Astronomical Society*, vol. 511, 4590 ([ADS](#))

94. Shank, D., Beers, T., **Placco, V. M.**, Limberg, G., Jaques, E., Yuan, Zhen, Schlafman, K. C., Casey, A. R., Huang, Y., Lee, Y. S., Hattori, K., Santucci, R. M.  
*Dynamically Tagged Groups of Metal-Poor Stars from the Best & Brightest Survey*  
**2022**, *The Astrophysical Journal*, vol. 926, 26 ([ADS](#))
93. Galarza, C. A., Daflon, S., **Placco, V. M.**, Allende Prieto, C. Borges Fernandes, M., Yuan, H., López-Sanjuan, C., Lee, Y. S., Solano, E., Jiménez-Esteban, F., Sobral, D., Alvarez-Candal, A., Pereira, C. B., Akas, S., Martín, E., Jiménez-Teja, Y., Cenarro, J., Cristóbal-Hornillos, D., Hernández-Monteagudo, C., Marín-Franch, A., Moles, M., Varela, J., Vázquez Ramió, H., Alcaniz, J., Dupke, R., Ederoclite, A., Sodr   Jr., L., Angulo, R.  
*J-PLUS: Searching for very metal-poor star candidates using the SPEEM pipeline*  
**2022**, *Astronomy & Astrophysics*, vol. 657, A35 ([ADS](#))
92. L  pez-Sanjuan, C., Yuan, H., V  zquez Rami  , H., Varela, J., Crist  bal-Hornillos, D., Tremblay, P. -E., Mar  n-Franch, A., Cenarro, A., Ederoclite, A., Alfaro, E., Alvarez-Candal, A., Daflon, S., Hern  n-Caballero, A., Hern  n-Monteagudo, C., Jim  nez-Esteban, F., **Placco, V. M.**, Tempel, E., Alcaniz, J., Angulo, R., Dupke, R., Moles, M., Sodr   Jr., L.  
*J-PLUS: Systematic impact of metallicity on photometric calibration with the stellar locus*  
**2021**, *Astronomy & Astrophysics*, vol. 654, A61 ([ADS](#))
91. Bonoli, S., Mar  n-Franch, A., Varela, J., V  zquez Rami  , H., Abramo, L. R., Cenarro, A. J., Dupke, R. A., V  lchez, J. M., Crist  bal-Hornillos, D., Gonz  lez Delgado, R. M., Hern  n-Monteagudo, C., L  pez-Sanjuan, C., Muniesa, D., Civera, T., Ederoclite, A., Hern  n-Caballero, A., Marra, V., Baqui, P., Cortesi, A., Cypriano, E., Daflon, S., de Amorim, A., D  az-Garc  a, L., Diego, J., Mart  nez-Solaache, G., P  rez, E., **Placco, V. M.**, et al.  
*The miniJPAS survey: a preview of the Universe in 56 colours*  
**2021**, *Astronomy & Astrophysics*, vol. 653, A31 ([ADS](#))
90. Arentsen, A., Starkenburg, E., Aguado, D. S., Martin, N. F., **Placco, V. M.**, Carlberg, R., Gonz  lez Hern  ndez, J. I., Hill, V., Jablonka, P., Kordopatis, G., Lardo, C., Mashonkina, L. I., Navarro, J. F., Venn, K. A., Buder, S., Lewis, G. F., Wan, Z., Zucker, D. B.  
*The Pristine Inner Galaxy Survey (PIGS) III: carbon-enhanced metal-poor stars in the bulge*  
**2021**, *Monthly Notices of the Royal Astronomical Society*, vol. 505, 1239 ([ADS](#))
89. Dietz, S. E., Yoon, J., Beers, T. C., **Placco, V. M.**, Lee, Y. S.  
*Two Populations of Carbon-Enhanced Metal-Poor Stars in the Disk System of the Milky Way*  
**2021**, *The Astrophysical Journal*, vol. 914, 100 ([ADS](#))
88. Limberg, G., Santucci, R. M., Rossi, S., Shank, D., **Placco, V. M.**, Beers, T., Schlafman, K. C., Casey, A. R., Perottoni, H. D., Lee, Y. S.  
*Targeting Bright Metal-poor Stars in the Disk and Halo Systems of the Galaxy*  
**2021**, *The Astrophysical Journal*, vol. 913, 11 ([ADS](#))
- 87. 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](#))
86. 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](#))
85. Fern  ndez-Trincado, J. G., Beers, T., Minniti, D., Carigi, L., **Placco, V. M.**, Chun, S., Lane, R., Geisler, D., Villanova, S. Souza, S., Barbuy, B., P  rez-Villegas, A., Chiappini, C., Queiroz, A., Tang, B., Alonso-Garc  a, J., Piatti, A., Palma, T. Alves-Brito, A., Moni Bidin, C., Roman-Lopes, A., Mu  oz, R., Singh, H., Kundu, R., Chaves-Velasquez, L., Romero-Colmenares, M., Longa-Pe  a, P., Soto, M., Vieira, K.



- APOGEE discovery of a chemically atypical star disrupted from NGC 6723 and captured by the Milky Way bulge*  
**2021, Astronomy & Astrophysics**, vol. 647,64 ([ADS](#))
84. GuDin, D., Shank, D., Beers, T. C., Yuan, Z., Limberg, G., Roederer, I. U., **Placco, V. M.**, Holmbeck, E. M., Dietz, S., Rasmussen, K. C., Hansen, T. T., Sakari, C. M., Ezzeddine, R., Frebel, A.  
*The R-Process Alliance: Chemodynamically Tagged Groups of Halo r-Process-Enhanced Stars Reveal a Shared Chemical-Evolution History*  
**2021, The Astrophysical Journal**, vol. 908, 79 ([ADS](#))
83. Limberg, G., Rossi, S., Beers, T., Perottoni, H., Pérez-Villegas, A., Santucci, R., Abuchaim, Y., **Placco, V. M.**, Lee, Y. S., Christlieb, N., Norris, J. E., Bessell, M., Ryan, S. G., Wilhelm, R., Rhee, J., Frebel, A.  
*Dynamically Tagged Groups of Very Metal-Poor Halo Stars from the HK and Hamburg/ESO Surveys*  
**2021, The Astrophysical Journal**, vol. 907, 10 ([ADS](#))
82. Baqui, P., Marra, V., Casarini, L., Angulo, R., Díaz-García, L., Hernández-Monteagudo, C., Lopes, P. A., López-Sanjuan, C., Muniesa, D., **Placco, V. M.**, Quartín, M., Queiroz, C., Sobral, D., Solano, E., Tempel, E., Varela, J., Vilchez, J. M., Abramo, L. R., Alcaniz, J., Benitez, N., Bonoli, S., Carneiro, S., Cenarro, A. J., Cristóbal-Hornillos, D., de Amorim, A., de Oliveira, C. M., Dupke, R. A., Ederoclite, A., González Delgado, R. M., Marín-Franch, A., Moles, M., Vázquez Ramió, H., Sodrè, L., Taylor, K.  
*The miniJPAS survey: star-galaxy classification using machine learning*  
**2021, Astronomy & Astrophysics**, vol. 645, A87 ([ADS](#))
81. Rasmussen, K., Zepeda, J., Beers, T. C., **Placco, V. M.**, Depagne, É., Frebel, A., Dietz, S., Hartwig, T.  
*Metal-Poor Stars Observed with the Southern African Large Telescope*  
**2020, The Astrophysical Journal**, vol. 905, 20 ([ADS](#))
80. 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](#))
79. Fernández-Trincado, J. G., Minniti, D., Beers, T., Villanova, S., Geisler, D., Souza, S., Smith, L., **Placco, V. M.**, Vieira, K., Pérez-Villegas, A., Barbuy, B., Alves-Brito, A., Bidin, C. M., Alonso-García, J., Tang, B., Palma, T.  
*The enigmatic globular cluster UKS 1 obscured by the bulge: H-band discovery of nitrogen-enhanced stars*  
**2020, Astronomy & Astrophysics**, vol. 643, 145 ([ADS](#))
78. Fernández-Trincado, J. G., Beers, T. C., Minniti, D., Carigi, L., Barbuy, B., **Placco, V. M.**, Moni Bidin, C., Villanova, S., Roman-Lopes, A., Nitschelm, C.  
*Discovery of a Large Population of Nitrogen-Enhanced Stars in the Magellanic Clouds*  
**2020, The Astrophysical Journal Letters**, vol. 903, 17 ([ADS](#))
77. Roederer, I. U., Lawler, J. E., Holmbeck, E. M., Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T. T., Ivans, I. I., Karakas, A. I., **Placco, V. M.**, Sakari, C. M.  
*Detection of Pb II in the Ultraviolet Spectra of Three Metal-Poor Stars*  
**2020, The Astrophysical Journal Letters**, vol. 902, 24 ([ADS](#))
76. Holmbeck, E. M., Hansen, T. T., Beers, T. C., **Placco, V. M.**, Whitten, D. D., Rasmussen, K. C., Roederer, I. U., Sakari, C., Ezzeddine, R., Frebel, A., Drout, M. R., Simon, J. D., Thompson, I. B., Bland-Hawthorn, J., Gibson, B. K., Grebel, E. K., Kordopatis, G., Kunder, A., Meléndez, J., Navarro, J. F., Reid, W. A., Seabroke, G., Steinmetz, M., Watson, F., Wyse, R. F. G.  
*The R-Process Alliance: Fourth Data Release from the Search for R-Process-Enhanced Stars in the Galactic Halo*  
**2020, The Astrophysical Journal Supplement Series**, vol. 249, 30 ([ADS](#))
75. Ezzeddine, R., Rasmussen, K., Frebel, A., Chiti, A., Hinojisa, K., **Placco, V. M.**, Ji, A. P., Beers, T. C., Hansen, T. T., Roederer, I. U., Sakari, C. M., Melendez, J.  
*The R-Process Alliance: First Magellan/MIKE Release from the Southern Search for R-Process-enhanced Stars*  
**2020, The Astrophysical Journal**, vol. 898, 150 ([ADS](#))

74. Cain, M., Frebel, A., Ji, A. P., **Placco, V. M.**, Ezzeddine, R., Roederer, I. U., Hattori, K., Beers, T. C., Meléndez, J., Hansen, T. T., Sakari, C.  
*The R-Process Alliance: A Very Metal-Poor, Extremely r-Process-Enhanced Star with  $[Eu/Fe] = +2.2$ , and the Class of r-III Stars*  
**2020**, *The Astrophysical Journal*, vol. 898, 40 ([ADS](#))
- 73.** **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](#))
72. Molino, A., Costa-Duarte, M. V., Sampedro, L., Herpich, F. R., Sodré, L., Jr., Mendes de Oliveira, C., Schoenell, W., Barbosa, C. E., Queiroz, C., Lima, E. V. R., Azanha, L., Muñoz-Elgueta, N., Ribeiro, T., Kanaan, A., Hernandez-Jimenez, J. A., Cortesi, A., Akas, S., Lopes de Oliveira, R., Torres-Flores, S., Lima-Dias, C., Nilo Castellon, J. L., Damke, G., Alvarez-Candal, A., Jiménez-Teja, Y., Coelho, P., Pereira, E., Montero-Dorta, A. D., Benítez, N., Gonçalves, T. S., Santana-Silva, L., Werner, S. V., Almeida, L. A., Lopes, P. A. A., Chies-Santos, A. L., Telles, E., de Souza, T. C. R., Gonçalves, D. R., de Souza, R. S., Makler, M., **Placco, V. M.**, Nakazono, L. M. I., Saito, R. K., Overzier, R. A., Abramo, L. R.  
*Assessing the photometric redshift precision of the S-PLUS survey: the Stripe-82 as a test-case*  
**2020**, *Monthly Notices of the Royal Astronomical Society*, vol. 499, 3884 ([ADS](#))
71. Dietz, S. E., Yoon, J., Beers, T. C., **Placco, V. M.**  
*The Metallicity Gradient and Complex Formation History of the Outermost Halo of the Milky Way*  
**2020**, *The Astrophysical Journal*, vol. 894, 34 ([ADS](#))
70. Yoon, J., Whitten, D. D., Beers, T. C., Lee, Y. S., Masseron, T., **Placco, V. M.**  
*Identification of a Group III CEMP-no Star in the Dwarf Spheroidal Galaxy Canes Venatici I*  
**2020**, *The Astrophysical Journal*, vol. 894, 7 ([ADS](#))
69. Yuan, Z., Myeong, G. C., Beers, T. C., Evans, N. W., Lee, Y. S., Banerjee, P., Gudin, D., Hattori, K., Li, H., Matsuno, T., **Placco, V. M.**, Smith, M. C., Whitten, D. D., Zhao, G.  
*Dynamical Relics of the Ancient Galactic Halo*  
**2020**, *The Astrophysical Journal*, vol. 891, 39 ([ADS](#))
68. Andrade-Santos, F., van Weeren, R. J., Di Gennaro, G., Wittman, D., Ryu, D., Lal, D. V., **Placco, V. M.**, Fogarty, K., Jee, M. J., Stroe, A., Sobral, D., Forman, W. R., Jones, C., Kraft, R. P., Murray, S. S., Brüggen, M., Kang, H., Santucci, R. M., Golovich, N., Dawson, W. A.  
*Chandra Observations of the Spectacular A3411–12 Merger Event*  
**2019**, *The Astrophysical Journal*, vol. 887, 31 ([ADS](#))
67. Fernández-Trincado, J. G., Mennickent, R., Cabezas, M., Zamora, O., Martell, S., Beers, T. C., **Placco, V. M.**, Nataf, D., Mészáros, S., Minniti, D., Schleicher, D. R., Tang, B., Pérez-Villegas, A., Robin, A. C., Reylé, C.  
*Discovery of a nitrogen-enhanced mildly metal-poor binary system: Possible evidence for pollution from an extinct AGB star*  
**2019**, *Astronomy & Astrophysics*, vol. 631, A97 ([ADS](#))
66. Fernández-Trincado, J. G., Beers, T. C., **Placco, V. M.**, Moreno, E., Alves-Brito, A., Minniti, D., Tang, B., Pérez-Villegas, A., Reylé, C., Robin, A. C., Villanova, S.  
*Discovery of a New Stellar Subpopulation Residing in the (Inner) Stellar Halo of the Milky Way*  
**2019**, *The Astrophysical Journal Letters*, vol. 886, 8 ([ADS](#))
65. López-Sanjuan, C., Varela, J., Cristóbal-Hornillos, D., Vázquez Ramió, H., Carrasco, J. M., Tremblay, P. -E., Whitten, D., **Placco, V. M.**, Marín-Franch, A., Cenarro, A., Ederoclite, A., Alfaro, E., Coelho, P., Civera, T., Hernández-Fuertes, J., Jiménez-Esteban, F., Jiménez-Teja, Y., Maíz Apellániz, J., Sobral, D., Vilchez, J., Alcaniz, J., Angulo, R., Dupke, R., Hernández-Monteagudo, C., Mendes de Oliveira, C., Moles, M., Sodré Jr., L.  
*J-PLUS: Photometric Calibration of Large-Area Multi-Filter Surveys with Stellar and White Dwarf loci*  
**2019**, *Astronomy & Astrophysics*, vol. 631, A119 ([ADS](#))

64. Whitten, D. D., Beers, T. C., **Placco, V. M.**, Santucci, R. M., Denisenkov, P., Tissera, P. B., Mejías, A., Hernitschek, N., Carollo, D.  
*Constraints on the Galactic Inner Halo Assembly History from the Age Gradient of Blue Horizontal-Branch Stars*  
**2019, The Astrophysical Journal**, vol. 884, 67 ([ADS](#))
63. Mendes de Oliveira, C., Ribeiro, T., Schoenell, W., Kanaan, A., Overzier, R., Molino, A., Sampedro, L., Coelho, P., Barbosa, C., Cortesi, A., Costa-Duarte, M. V., Herpich, F. R., Hernandez-Jimenez, J., **Placco, V. M.**, et al.  
*The Southern Photometric Local Universe Survey (S-PLUS): improved SEDs, morphologies and redshifts with 12 optical filters*  
**2019, Monthly Notices of the Royal Astronomical Society**, vol. 489, 241 ([ADS](#))
62. 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](#))
61. Ezzeddine, R., Frebel, A., Roederer, I. U., Tominaga, N., Tumlinson, J., Ishigaki, M., Nomoto, K., **Placco, V. M.**, Aoki, W.  
*Evidence for an Aspherical Population III Supernova Explosion Inferred from the Hyper Metal-Poor Star HE 1327–2326*  
**2019, The Astrophysical Journal**, vol. 876, 97 ([ADS](#))
60. Mardini, M. K., Li, H., **Placco, V. M.**, Alexeeva, S., Carollo, D., Taani, A., Ablimit, I., Wang, L., Zhao, G.  
*Metal-Poor Stars Observed with the Automated Planet Finder Telescope. I. Discovery of Five Carbon-Enhanced Metal-Poor Stars from LAMOST*  
**2019, The Astrophysical Journal**, vol. 875, 89 ([ADS](#))
59. Sakari, C. M., Roederer, I. U., **Placco, V. M.**, Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T. T., Sneden, C., Cowan, J. J., Wallerstein, G., Farrell, E. M., Venn, K. A., 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: Discovery of a Low- $\alpha$ ,  $r$ -process-enhanced Metal-poor Star in the Galactic Halo*  
**2019, The Astrophysical Journal**, vol. 874, 148 ([ADS](#))
58. Hansen, C. J., Hansen, T. T., Koch, A., Beers, T. C., Nordström, B., **Placco, V. M.**, Andersen, J.  
*Abundances and kinematics of carbon-enhanced metal-poor stars in the Galactic halo. A new classification scheme based on Sr and Ba*  
**2019, Astronomy & Astrophysics**, vol. 623, A128 ([ADS](#))
57. Cenarro, A., Moles, M., Cristóbal-Hornillos, D., Marín-Franch, A., Ederoclite, A., Varela, J., López-Sanjuan, C., Hernández-Monteagudo, C., Angulo, R., Vázquez Ramió, H., Viironen, K., Bonoli, S., Orsi, A., Hurier, G., San Roman, I., Vilella-Rojo, G., Díaz-García, L., Logroño-García, R., Gurung-López, S., Spinoso, D., Izquierdo-Villalba, D., Aguerri, J., Allende Prieto, C., Bonatto, C., Carvano, J., Chies-Santos, A., Daflon, S., Dupke, R., Falcón-Barroso, J., Gonçalves, D., Jiménez-Teja, Y., Molino, A., **Placco, V. M.**, Solano, E., Whitten, D., et al.  
*J-PLUS: The Javalambre Photometric Local Universe Survey*  
**2019, Astronomy & Astrophysics**, vol. 622, A176 ([ADS](#))
56. López-Sanjuan, C., Vázquez Ramió, H., Varela, J., Spinoso, D., Angulo, R. E., Muniesa, D., Viironen, K., Cristóbal-Hornillos, D., Cenarro, A. J., Ederoclite, A., Marín-Franch, A., Moles, M., Ascaso, B., Bonoli, S., Chies-Santos, A. L., Coelho, P. R., Costa-Duarte, M. V., Cortesi, A., Díaz-García, L. A., Dupke, R. A., Galbany, L., Hernández-Monteagudo, C., Logroño-García, R., Molino, A., Orsi, A., **Placco, V. M.**, Sampedro, L., San Roman, I., Vilella-Rojo, G., Whitten, D., Mendes de Oliveira, C. L., Sodr  Jr., L.  
*J-PLUS: Morphological star/galaxy classification by PDF analysis*  
**2019, Astronomy & Astrophysics**, vol. 622, A177 ([ADS](#))
55. Whitten, D. D., **Placco, V. M.**, Beers, T. C., Chies-Santos, A. L., Bonatto, C., Varela, J., Crist bal-Hornillos, D., Ederoclite, A., Akas, 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., Sodr , L.  
*J-PLUS: Identification of Low-Metallicity Stars with Artificial Neural Networks using SPHINX*  
**2019, Astronomy & Astrophysics**, vol. 622, A182 ([ADS](#))
- 54. Placco, V. M.**, Santucci, R. M., Beers, T. C., Chanam , J., Sep lveda, 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](#))
53. 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., Matijevi , 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](#))
52. Wanying Fu, S., Simon, J. D., Shetrone, M., Bovy, J., Beers, T. C., Fern ndez-Trincado, J., **Placco, V. M.**, Zamora, O., Allende-Prieto, C., Garc a-Hern ndez, D. A., Harding, P., Ivans, I. I., Lane, R., Nitschelm, C., Roman-Lopes, A., Sobeck, J.  
*The Origin of the 300 km s<sup>-1</sup> Stream near Segue 1*  
**2018, The Astrophysical Journal**, vol. 866, 42 ([ADS](#))
51. Roederer, I. U., Sakari, C. M., **Placco, V. M.**, Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T. T.  
*The R-Process Alliance: A Comprehensive Abundance Analysis of HD 222925, a Metal-Poor Star with an Extreme R-Process Enhancement of [Eu/H] = -0.14*  
**2018, The Astrophysical Journal**, vol. 865, 129 ([ADS](#))
50. Cain, M., Frebel, A., Gull, M., Ji, A. P., **Placco, V. M.**, Beers, T. C., Mel ndez, J., Ezzeddine, R., Casey, A. R., Hansen, T. T., Roederer, I. U., Sakari, C.  
*The R-Process Alliance: Chemical Abundances for a Trio of R-Process-Enhanced Stars – One Strong, One Moderate, One Mild*  
**2018, The Astrophysical Journal**, vol. 864, 43 ([ADS](#))
49. Gull, M., Frebel, A., Cain, M., **Placco, V. M.**, Ji, A. P., Abate, C., Ezzeddine, R., Karakas, A. I., Hansen, T. T., Sakari, C., Holmbeck, E. M., Santucci, R. M., Casey, A. R., Beers, T. C.  
*The R-Process Alliance: Discovery of the first metal-poor star with a combined r- and s-process element signature*  
**2018, The Astrophysical Journal**, vol. 862, 174 ([ADS](#))
48. Yoon, J., Beers, T., Dietz, S., Lee, Y. S., **Placco, V. M.**, Da Costa, G., Keller, S., Owen, C. I., Sharma, M.  
*Galactic Archeology with the AEGIS Survey: The Evolution of Carbon and Iron in the Galactic Halo*  
**2018, The Astrophysical Journal**, vol. 861, 146 ([ADS](#))
47. Holmbeck, E. M., Beers, T. C., Roederer, I. U., **Placco, V. M.**, Hansen, T. T., Sakari, C., Sneden, C., Liu, C., Lee, Y. S., Frebel, A.  
*The R-Process Alliance: 2MASS J09544277+5246414, The Most Actinide-Enhanced r-II Star Known*  
**2018, The Astrophysical Journal Letters**, vol. 859, 24 ([ADS](#))
- 46. Placco, V. M.**, Beers, T. C., Santucci, R. M., Chanam , J., Sep lveda, M. P., Coronado, J., Points, S. D., Kaleida, C. C., Rossi, S., Kordopatis, G., Lee, Y. S., Matijevi , 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](#))

45. Hansen, T. T., Holmbeck, E. M., Beers, T. C., **Placco, V. M.**, Roederer, I. U., Frebel, A., Sakari, C. M., Simon, J. D., Thompson, I. B.  
*The R-Process Alliance: First Release from Southern Search for R-Process-Enhanced Stars in the Galactic Halo*  
**2018, The Astrophysical Journal**, vol. 858, 92 ([ADS](#))
44. 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  $[Fe/H] \sim -2$*   
**2018, The Astrophysical Journal Letters**, vol. 854, 20 ([ADS](#))
43. Shappee, B. J., Simon, J. D., Drout, M. R., Piro, A. L., Morrell, N., Prieto, J. L., Kasen, D., Holoien, T. W.-S., Kollmeier, J. A., Kelson, D. D., Coulter, D. A., Foley, R. J., Kilpatrick, C. D., Siebert, M. R., Madore, B. F., Murguía-Berthier, A., Pan, Y.-C., Prochaska, J. X., Ramirez-Ruiz, E., Rest, A., Adams, C., Alatalo, K., Banádos, E., Baughman, J., Bernstein, R. A., Bitsakis, T., Boutsia, K., Bravo, J. R., Di Mille, F., Higgs, C. R., Ji, A. P., Maravelias, G., Marshall, J. L., **Placco, V. M.**, Prieto, G., Wan, Z.  
*Early Spectra of a Gravitational Wave Source GW170817: Evolution of a Neutron Star Merger*  
**2017, Science**, 10.1126/science.aag0186 ([ADS](#))
42. LIGO Scientific Collaboration and Virgo Collaboration, Fermi GBM, INTEGRAL, IceCube Collaboration, . . . , TOROS: Transient Robotic Observatory of the South Collaboration (incl. **Placco, V. M.**), . . .  
*Multi-messenger Observations of a Binary Neutron Star Merger*  
**2017, The Astrophysical Journal Letters**, vol. 848, 12 ([ADS](#))
41. Díaz, M. C., Macri, L. M., Garcia Lambas, D., Mendes de Oliveira, C., Nilo Castellón, J. L., Ribeiro, T., Sánchez, B., Schoenell, W., Abramo, L. R., Akras, S., Alcaniz, J. S., Artola, R., Beroiz, M., Bonoli, S., Cabral, J., Camuccio, R., Castillo, M., Chavushyan, V., Coelho, P., Colazo, C., Costa-Duarte, M. V., Cuevas Larenas, H., DePoy, D. L., Domínguez Romero, M., Dultzin, D., Fernández, D., García, J., Girardini, C., Gonçalves, D. R., Gonçalves, T. S., Gurovich, S., Jiménez-Teja, Y., Kanaan, A., Lares, M., Lopes de Oliveira, R., López-Cruz, O., Marshall, J. L., Melia, R., Molino, A., Padilla, N., Peñuela, T., **Placco, V. M.**, Quiñones, C., Ramírez Rivera, A., Renzi, V., Riguccini, L., Ríos-López, E., Rodríguez, H., Sampeder, L., Schneiter, M., Sodrè, L., Starck, M., Torres-Flores, S., Tornatore, M., Zdrozny, A.  
*Observations of the first electromagnetic counterpart to a gravitational wave source by the TOROS collaboration*  
**2017, The Astrophysical Journal Letters**, vol. 848, 29 ([ADS](#))
40. Reggiani, H., Meléndez, J., Kobayashi, C., Karakas, A., Ramírez, I., **Placco, V. M.**  
*Constraining cosmic scatter in the Galactic Halo through a differential analysis of Metal Poor Stars*  
**2017, Astronomy & Astrophysics**, vol. 608, 46 ([ADS](#))
39. Kieley, C. L., Venn, K. A., Loewen, N. B., Shetrone, M., **Placco, V. M.**, Jahandar, F., Mészáros, Sz., Martell, S.  
*Carbon-enhanced metal-poor stars in the SDSS-APOGEE database*  
**2017, Monthly Notices of the Royal Astronomical Society**, vol. 471, 404 ([ADS](#))
38. Fernández-Trincado, J. G., Zamora, O., Garcia-Hernandez, D. A., Souto, D., Dell'Agli, F., Schiavon, R. P., Geisler, D., Tang, B., Villanova, S., Hasselquist, S., Mennickent, R. E., Cunha, K., Shetrone, M., Allende-Prieto, C., Vieira, K., Zasowski, G., Sobeck, J., Hayes, C. R., Majewski, S. R., **Placco, V. M.**, Beers, T. C., Schleicher, D. R. G., Robin, A. C., Mészáros, Sz., Masseron, T., Garcia-Perez, A. E., Anders, F., Meza, A., Alves-Brito, A., Carrera, R., Minniti, D., Lane, R. R., Fernandez-Alvar, E., Moreno, E., Pichardo, B., Perez-Villegas, A., Schultheis, M., Roman-Lopes, A., Fuentes, C. E., Nitschelm, C., Harding, P., Bizyaev, D., Pan, K., Oravetz, D., Simmons, A., Ivans, I. I., Blanco-Cuaresma, S., Hernandez, J., Alonso-Garcia, J., Valenzuela, O., Chaname, J.  
*Atypical Mg-poor Milky Way field stars with globular cluster second-generation like chemical patterns*  
**2017, The Astrophysical Journal Letters**, vol. 846, 2 ([ADS](#))
37. Hasselquist, S., Shetrone, M., Smith, V. V., Holtzman, J., McWilliam, A., Fernández-Trincado, J. G., Beers, T. C., Majewski, S. R., Nidever, D. L., Tang, B., Tissera, P. B., Fernández-Alvar, E. F., Allende-Prieto, C., Battaglia, G., Carigi, L., Cunha, K., Delgado Inglada, G., Frinchaboy, P., García-Hernández, D. A., Geisler, D., Minniti, D., **Placco, V. M.**, Schultheis, M., Sobeck, J., Villanova, S.

- APOGEE Chemical Abundances of the Sagittarius Dwarf Galaxy*  
**2017**, *The Astrophysical Journal*, vol. 845, 162 ([ADS](#))
- 36.** [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](#))
35. Lee, Y. S., Beers, T. C., Kim, Y. K., [Placco, V. M.](#), Yoon, J., Carollo, D., Masseron, T., Jung, J.  
*Chemical Cartography. I. A Carbonicity Map of the Galactic Halo*  
**2017**, *The Astrophysical Journal*, vol. 836, 91 ([ADS](#))
34. 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](#))
33. van Weeren, R. J., Andrade-Santos, F., Dawson, W. A., Golovich, N., Lal, D. V., Kang, H., Ryu, D., Brüggen, M., Ogorean, G. A., Forman, W. R., Jones, C., [Placco, V. M.](#), Santucci, R. M., Wittman, D., Jee, M. J., Kraft, R. P., Sobral, D., Stroe, A., Fogarty, K.  
*The Case for Electron Re-Acceleration at Galaxy Cluster Shocks*  
**2017**, *Nature Astronomy*, vol. 1, 5 ([Nature Astronomy link](#) | [Issue cover](#) | )
32. Carollo, D., Beers, T., [Placco, V. M.](#), Santucci, R. M., Denissenkov, P., Tissera, P. B., Lentner, G., Rossi, S., Lee, Y. S., Tumlinson, J.  
*The age structure of the Milky Way's halo*  
**2016**, *Nature Physics*, vol. 12, 1170 ([Nature Physics link](#) | [Issue cover](#) | )
31. Hasselquist, S., Shetrone, M., Cunha, K., Smith, V. V., Holtzman, J., Lawler, J. E., Beers, T. C., Chojnowski, D., Fernández-Trincado, J., García-Hernández, D., Hearty, F., Majewski, S., Pereira, C., [Placco, V. M.](#), Villanova, S., Zamora, O.  
*Identification of Neodymium in the APOGEE H-band Spectra*  
**2016**, *The Astrophysical Journal*, vol. 833, 81 ([ADS](#))
- 30.** [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](#))
29. Yoon, J., Beers, T., [Placco, V. M.](#), Rasmussen, K., Carollo, D., He, S., Hansen, T., Roederer, I. U., Zeanah, J.  
*Observational Constraints on First-Star Nucleosynthesis. I. Evidence for Multiple Progenitors of CEMP-no Stars*  
**2016**, *The Astrophysical Journal*, vol. 833, 20 ([ADS](#))
- 28.** [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](#))
27. 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](#))
26. Hansen, C. J., Nordström, B., Hansen, T., Kennedy, C. R., [Placco, V. M.](#), Beers, T. C., Andersen, J., Cescutti, G., Chiappini, C.  
*Abundances of carbon-enhanced metal-poor stars as constraints on their formation*  
**2016**, *Astronomy & Astrophysics*, vol. 588, A37 ([ADS](#))
25. Hansen, T., Andersen, J., Nordström, B., Beers, T., [Placco, V. M.](#), Yoon, J., Buchhave, L.  
*The role of binaries in the enrichment of the early Galactic halo.III. Carbon-Enhanced Metal-Poor Stars - CEMP-s*  
**2016**, *Astronomy & Astrophysics*, vol. 588, A3 ([ADS](#))

24. Hansen, T., Andersen, J., Nordström, B., Beers, T., **Placco, V. M.**, Yoon, J., Buchhave, L.  
*The role of binaries in the enrichment of the early Galactic halo. II. Carbon-Enhanced Metal-Poor Stars - CEMP-no*  
**2016, Astronomy & Astrophysics**, vol. 586, A160 ([ADS](#))
23. 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](#))
22. Hollek, J., Frebel, A., **Placco, V. M.**, Karakas, A., Shetrone, M., Sneden, C., Christlieb, N.  
*The Chemical Abundances of Stars in the Halo (CASH) Project. III. A New Classification Scheme for Carbon-Enhanced Metal-poor Stars with S-process Element Enhancement*  
**2015, The Astrophysical Journal**, vol. 812, 121 ([ADS](#))
21. An, D., Beers, T. C., Santucci, R. M., Carollo, D., **Placco, V. M.**, Lee, Y. S., Rossi, S.  
*The Fractions of Inner- and Outer-Halo Stars in the Local Volume as Revealed by SDSS Photometry of Stripe 82*  
**2015, The Astrophysical Journal Letters**, vol. 813, 28 ([ADS](#))
20. Santucci, R. M., Beers, T. C., **Placco, V. M.**, Carollo, D., Rossi, S., Lee, Y. S., Denissenkov, P., Tumlinson, J., Tissera, P. B.  
*Chronography of the Milky Way's Halo System with Field Blue Horizontal-Branch Stars*  
**2015, The Astrophysical Journal Letters**, vol. 813, 16 ([ADS](#))
- [19.](#) **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](#))
18. Frebel, A., Chiti, A., Ji, A. P., Jacobson, H. R., **Placco, V. M.**  
*SD 1313–0019 – Another second-generation star with  $[Fe/H] = -5.0$ , observed with the Magellan Telescope*  
**2015, The Astrophysical Journal Letters**, vol. 810, 27 ([ADS](#))
- [17.](#) **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](#))
16. Hansen, T., Hansen, C. J., Christlieb, N., Beers, T. C., Yong, D., Bessell, M. S., Frebel, A., García Pérez, A. E., **Placco, V. M.**, Norris, J. E., Asplund, M.  
*An Elemental Assay of Very, Extremely, and Ultra Metal-Poor Stars*  
**2015, The Astrophysical Journal**, vol. 807, 173 ([ADS](#))
15. 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](#))
- [14.](#) **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](#))
13. Beers, T. C., Norris, J. E., **Placco, V. M.**, Lee Y. S., Rossi S., Carollo, D., Masseron, T.  
*Population Studies. XIII. A New Analysis of the Bidelman-MacConnell “Weak-metal” Stars - Confirmation of Metal-poor Stars in the Thick Disk of the Galaxy*  
**2014, The Astrophysical Journal**, vol. 794, 58 ([ADS](#))
- [12.](#) **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](#))

11. Carollo, D., Freeman, K., Beers, T. C., **Placco, V. M.**, Tumlinson, J., Martell, S. L.  
*Carbon-enhanced Metal-poor Stars: CEMP-s and CEMP-no Subclasses in the Halo System of the Milky Way*  
**2014, The Astrophysical Journal**, vol. 788, 180 ([ADS](#))
10. Hansen, T., Hansen, C. J., Christlieb, N., Yong, D., Bessell, M., García Pérez, A., Beers, T. C., **Placco, V. M.**, Frebel, A., Norris, J. E., Asplund, M.  
*Exploring the Origin of Lithium, Carbon, Strontium, and Barium with Four New Ultra Metal-poor Stars*  
**2014, The Astrophysical Journal**, vol. 787, 162 ([ADS](#))
9. Kennedy, C. R., Stancliffe, R. J., Kuehn, C., Beers, T. C., Kinman, T. D., **Placco, V. M.**, Reggiani, H., Rossi, S., Lee, Y. S.  
*Seven New Carbon-enhanced Metal-poor RR Lyrae Stars*  
**2014, The Astrophysical Journal**, vol. 787, 6 ([ADS](#))
- 8. 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](#))
7. Lee Y. S., Beers T. C., Masseron T., Plez B., Rockosi, C., Sobeck, J., Yanny, B., Lucatello, S., Sivarani, T., **Placco, V. M.**, Carollo D.  
*Carbon-enhanced Metal-poor Stars in SDSS/SEGUE. I. Carbon Abundance Estimation and CEMP Star Frequency*  
**2013, The Astronomical Journal**, vol. 146, 132 ([ADS](#))
- 6. 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](#))
- 5. 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](#))
4. Kennedy, C.R., Sivarani, T., Beers, T.C., Lee, Y.S., **Placco, V. M.**, Rossi, S., Christlieb, N., Herwig, F., Plez, B.  
 *$[O/Fe]$  Estimates for Carbon-enhanced Metal-poor Stars from Near-infrared Spectroscopy*  
**2011, The Astronomical Journal**, vol. 141, 102 ([ADS](#))
- 3. 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](#))
2. Marsteller, B., Beers, T. C., Sivarani, T., Rossi, S., **Placco, V. M.**, Knapp, G. R., Johnson, J. A., Lucatello, S.  
*Automated Determination of  $[Fe/H]$  and  $[C/Fe]$  from Low-Resolution Spectroscopy*  
**2009, The Astronomical Journal**, vol. 138, 533 ([ADS](#))
1. Lichenthäler, R., Lépine-Szily, A., Guimarães, V., Perego, C., **Placco, V. M.**, Camargo, O., Jr., Denke, R., de Faria, P. N., Benjamim, E. A., Added, N., Lima, G. F., Hussein, M. S., Kolata, J., Arazi, A.  
*Radioactive Ion beams in Brazil (RIBRAS)*  
**2005, The European Physical Journal A - Supplement**, vol. 25, 733 ([ADS](#))

## Proceedings, non-refereed publications and abstracts

- 58. 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](#))



57. Fitzpatrick, M., **Placco, V. M.**  
*NOIRLab IRAF - Modernizing Legacy Software to Support Gemini Data Reduction and Beyond*  
**2024**, NSF's NOIRLab *The Mirror*, issue #7 ([The Mirror](#) | [ADS](#))
56. 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](#))
55. Rantakyro, F., Kalari, V., **Placco, V. M.**  
*GHOST: High-Resolution Optical Spectroscopy at Gemini South*  
**2024**, NSF's NOIRLab *The Mirror*, issue #6 ([The Mirror](#) | [ADS](#))
54. Merino, B., **Placco, V. M.**, Stanghellini, L.  
*US NGO Completes the Science Verification of the GNIRS XD Pipeline*  
**2024**, NSF's NOIRLab *The Mirror*, issue #6 ([The Mirror](#) | [ADS](#))
53. Labrie, K., Simpson, C., Cardenes, R., Turner, J., Soraisam, M., Quint, B., Oberdorf, O., **Placco, V. M.**, Berke, D., Smirnova, O., Conseil, S., Vacca, W. D., Thomas-Osip, J.  
*DRAGONS-A Quick Overview*  
**2023**, *Research Notes of the American Astronomical Society*, vol. 7, 214 ([ADS](#) | [PDF](#))
- 52.** **Placco, V. M.**, Stanghellini, L.  
*The US National Gemini Office at NSF's NOIRLab*  
**2023**, NSF's NOIRLab *The Mirror*, issue #5 ([The Mirror](#) | [ADS](#))
51. Morate, D., Mahlke, M., Álvarez-Candal, A., Ederoclite, A., Vázquez Ramió, H., Siffert, B. B., **Placco, V. M.**,  
*Asteroids & J-Var*, **Spanish Meeting of Planetary Sciences and Solar System Exploration**, **2023** ([ADS](#))
50. Roederer, I. U., Vassh, N., Holmbeck, E. M., Mumpower, M., Surman, R., Cowan, J., Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T., **Placco, V. M.**, Sakari, C. *Evidence for transuranic fission fragments in stars*, **American Astronomical Society, AAS Meeting #241**, **2023** ([ADS](#))
49. Lang, A., Roederer, I. U., Holmbeck, E. M., HAttori, K., Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T., **Placco, V. M.**, Sakari, C. *Comparing detailed abundances of highly r-process-enhanced stars in the halo of the Milky Way to determine the masses of neutron star merger progenitors*, **American Astronomical Society, AAS Meeting #241**, **2023** ([ADS](#))
48. Merino, B., **Placco, V. M.**, Stanghellini, L.  
*The US NGO GMOS Data Reduction Cookbook: Version 2.0*  
**2022**, NSF's NOIRLab *The Mirror*, issue #3 ([zenodo](#) | [The Mirror](#) | [ADS](#))
47. Hernández-Fuertes, J., Ramió, H., Ederoclite, A., Infante-Sainz, R., Siffert, B., Espinosa, L., **Placco, V. M.**, Álvarez-Candal, A., Maícas, N., López-Martínez, F., Varela, J., López-Sanjuan, C., Marín-Franch, A., Cenarro, A.  
*JVAR Transient Discovery Report for 2021-12-14*, **Transient Name Server Discovery Report**, **2021** ([ADS](#))
- 46.** **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](#))
45. Khan, H., Sakari, C., **Placco, V. M.**, *Neutron Capture Abundances in the CEMP Star BD+42 2173: A Signature of the Intermediate (i-) Process?*, **American Astronomical Society, AAS Meeting #237**, **2021** ([ADS](#))
44. Shank, D., Beers, T. C., Yoon, J., **Placco, V. M.**, *Dynamically Tagged Groups of Carbon-Enhanced Metal-Poor Stars from the AEGIS Survey*, **American Astronomical Society, AAS Meeting #237**, **2021** ([ADS](#))
43. Komater, D., Shank, D., Beers, T. C., Yoon, J., **Placco, V. M.**, *Dynamically Tagged Groups of Metal-Poor Stars from the AEGIS Survey*, **American Astronomical Society, AAS Meeting #237**, **2021** ([ADS](#))

42. Zepeda, J., Rasmussen, K., Beers, T. C., **Placco, V. M.**, *High-Resolution Spectroscopic Abundances for over 200 Metal-Poor Stars*, **American Astronomical Society, AAS Meeting #237, 2021** ([ADS](#))
41. Hernández-Fuertes, J., Ramió, H. V., Varela, J., Ederoclite, A., Siffert, B. B., Espinosa, L., **Placco, V. M.**, Álvarez-Candal, A., Maicas, N., López-Sanjuan, C., Marín-Franch, A., Cenarro, A. J. *Transient Discovery Report for 2020-12-22*, **Transient Name Server Discovery Report, 2020** ([ADS](#))
40. Jeong, M., Lee, Y. S., Beers, T. C., **Placco, V. M.**, *Chemodynamical Properties of Extremely Metal-Poor Stars*, **American Astronomical Society, AAS Meeting #235, 2020**
39. Yoon, J., Beers, T. C., Tian, D., **Placco, V. M.**, Lee, Y. S., *Origin and evolution of the CEMP-no stars in the Galaxy and its satellite dwarf galaxies*, **American Astronomical Society, AAS Meeting #235, 2020**
38. The MSE Science Team (incl. **Placco, V. M.**), *The Detailed Science Case for the Maunakea Spectroscopic Explorer*, **2019** ([ADS Abstract](#) | [arXiv e-print](#))
37. Vázquez Ramió, H., Cristóbal-Hornillos, D., Ederoclite, A., Whitten, D. D., **Placco, V. M.**, J-PLUS Team *Identification of RR Lyrae stars in the Javalambre Photometric Local Universe Survey*, **Proceedings of the XIII Scientific Meeting of the Spanish Astronomical Society, 2019** ([ADS](#))
36. Yoon, J., Whitten, D. D., Beers, T. C., **Placco, V. M.**, Lee, Y. S., Dietz, S., Gudin, D., Rasmussen, K., *Lifting the Veil on Ultra Metal-Poor Stars in the Outermost Halo*, **Rediscovering our Galaxy, Proceedings of the International Astronomical Union, 2018**, vol. 334 ([ADS](#))
35. Whitten, D. D., **Placco, V. M.**, Beers, T. C., Clark, S., Ederoclite, A., Mendes de Oliveira, C., *Probing Galactic Chemical Evolution with J-PLUS Photometry*, **Rediscovering our Galaxy, Proceedings of the International Astronomical Union, 2018**, vol. 334 ([ADS](#))
34. Rasmussen, K., Beers, T. C., **Placco, V. M.**, Yoon, J., Dietz, S., *Measurement of  $[Fe/H]$  and  $[C/Fe]$  for Metal-Poor Stars from the RAVE Survey*, **Rediscovering our Galaxy, Proceedings of the International Astronomical Union, 2018**, vol. 334 ([ADS](#))
33. Dietz, S., Beers, T. C., **Placco, V. M.**, Yoon, J., AEGIS Collaboration, *Kinematic and Chemical Analysis of AEGIS Survey Stars*, **Rediscovering our Galaxy, Proceedings of the International Astronomical Union, 2018**, vol. 334 ([ADS](#))
32. Beers, T. C., Holmbeck, E. M., **Placco, V. M.**, Hansen, T. T., Simon, J. D., Thompson, I., Frebel, A., Sakari, C. M., *New Highly  $r$ -Process-Enhanced Halo Stars*, **Rediscovering our Galaxy, Proceedings of the International Astronomical Union, 2018**, vol. 334 ([ADS](#))
- 31. Placco, V. M.** *Identification Of (Bright) Carbon-Enhanced Metal-Poor Stars With J-Plus Photometry*, **Early Data Release and Scientific Exploitation of the J-PLUS Survey, 2017** ([ADS](#))
30. Holmbeck, E. M., **Placco, V. M.**, Beers, T. C., Frebel, A., Sakari, C., Surman, R. *RAVE J2038-0023: The First Bright  $r$ -Process Enhanced Star Identified in the RAVE Survey*, **Proceedings of the 14th Symposium on Nuclei in the Cosmos, 2017** ([ADS](#))
29. van Weeren, R. J., Andrade-Santos, F., Dawson, W. A., Golovich, N., Lal, D. V., Kang, H., Ryu, D., Brüggen, M., Oglean, G. A., Forman, W. R., Jones, C., **Placco, V. M.**, Santucci, R. M., Wittman, D., Jee, M. J., Kraft, R. P., Sobral, D., Stroe, A., Fogarty, K. *Discovery of Electron Re-Acceleration at Galaxy Cluster Shocks*, **American Astronomical Society, AAS Meeting #229, 2017**
28. Yoon, J., Beers, T. C., Dietz, S., Lee, Y. S., **Placco, V. M.** *Kinematics and chemistry of faint high latitude dwarf carbon stars*, **American Astronomical Society, AAS Meeting #229, 2017**
27. Beers, T., **Placco, V. M.**, Holmbeck, E., Hansen, T., Simon, J. *Searching for New Highly  $r$ -Process-Enhanced Stars in the Halo of the Milky Way*, **American Astronomical Society, AAS Meeting #229, 2017**

26. Dietz, S. E., Beers, T. C., Carollo, D., Yoon, J., **Placco, V. M.** *Identifying CEMP-s and CEMP-no Stars within Milky Way Halo Structures*, **American Astronomical Society, AAS Meeting #229, 2017**
25. Lentner, G., Beers, T. C., **Placco, V. M.**, Carollo, D., Whitten, D., Denissenkov, P., Santucci, R., Rossi, S. *Structures in the Milky Way's Halo System using the Age Distribution of Field Horizontal-Branch Stars*, **American Astronomical Society, AAS Meeting #229, 2017**
24. Rasmussen, K., Beers, T. C., **Placco, V. M.**, Yoon, J. *The First Mass Function and Rise of Carbon in the Early Universe*, **American Astronomical Society, AAS Meeting #229, 2017**
23. Hasselquist, S., Shetrone, M. D., Smith, V. V., Cunha, K., McWilliam, A., Holtzman, J. A., Majewski, S. R., Sobek, J., Frinchaboy, P. M., Roman-Lopes, A., Ivans, I. I., Allende-Prieto, C., **Placco, V. M.**, Lane, R., Zasowski, G. *APOGEE Chemical Abundances of the Sagittarius Dwarf Galaxy*, **American Astronomical Society, AAS Meeting #229, 2017**
22. Gimeno, G., Roth, K., Chiboucas, K., Hibon, P., Boucher, L., White, J., Rippa, M., Labrie, K., Turner, J., Hanna, K., Lazo, M., Pérez, G., Rogers, R., Rojas, R., **Placco, V. M.**, Murowinski, R. *On-sky commissioning of Hamamatsu CCDs in GMOS-S*, **Proceedings of the SPIE, 2016**, vol. 9908, id. 99082S 14 pp. ([SPIE Library](#))
- 21. Placco, V. M.**, Beers, T. C., *Identifying Bright Carbon-Enhanced Metal-Poor Stars in the RAVE Catalog*, **American Astronomical Society, AAS Meeting #227, 2016**
20. Kennedy, C. R., **Placco, V. M.**, Beers, T. C., *High-resolution analysis of carbon-enhanced metal-poor stars with Magellan*, **American Astronomical Society, AAS Meeting #227, 2016**
19. Yoon, J., He, S., **Placco, V. M.**, Carollo, D., Beers, T. C., *Carbon Abundance Plateaus among Carbon-Enhanced Metal-Poor Stars*, **American Astronomical Society, AAS Meeting #227, 2016**
18. Beers, T. C., **Placco, V. M.**, Carollo, D., Santucci, R. M., Rossi, S., Lee, Y. S., Denissenkov, P., Tumlinson, J., Tissera, P., Lentner, G., *Chronography of the Milky Way's Halo System with Field Blue Horizontal-Branch Stars*, **American Astronomical Society, AAS Meeting #227, 2016**
17. Roth, K., Gimeno, G., Chiboucas, K., Hibon, P., Gomez, P. L., **Placco, V. M.**, *Commissioning new Hamamatsu CCDs for GMOS-S*, **American Astronomical Society, AAS Meeting #225, 2015**
16. Beers, T. C., Carollo, D., Keller, S., Casey, A., Lee, Y. S., **Placco, V. M.**; Skymapper Team, Aegis Collaboration, *Kinematics of the AEGIS Spectroscopic Sample of Milky Way Halo- and Disk-System Stars from SkyMapper*, **American Astronomical Society, AAS Meeting #225, 2015**
15. Lopes de Oliveira, R., **Placco, V. M.**, *Unveiling optical and X-ray properties of the high mass X-ray binary XMMU J054134.7-682550*, **Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias), 2014**, vol. 44, pp. 158-158 ([ADS](#))
14. Lopes de Oliveira, R., **Placco, V. M.**, *Eighteen years of the life of the Be/X-ray binary XMMUJ054134.7-682550*, **The X-ray Universe, 2014**
13. Chene, A. N., Padzer, J., Barrick, G., Anthony, A., Benedict, T., Duncan, D., Gigoux, P., Kleinman, S., Malo, L., Martioli, E., Moutou, C., **Placco, V. M.**; Reshetovand, V., Rhee, J., Roth, K., Schiavon, R., Tollestrup, E. V., Vermeulen, T. A., White, J., Wooff, R., *GRACES: Gemini remote access to CFHT ESPaDOnS spectrograph through the longest astronomical fiber ever made: experimental phase completed*, **Proceedings of the SPIE, 2014**, vol. 9151, id. 915147 16 pp. ([arXiv e-print](#))
12. Beers, T. C., Lee, Y. S., **Placco, V. M.**; Carollo, D., Christlieb, N., Fiorenza, S., *Determination of Physical Parameter Estimates for Metal-Poor Stars from the HK and HES Surveys*, **American Astronomical Society, AAS Meeting #222, 2013**
11. Beers, T. C., **Placco, V. M.**; Rossi, S., Christlieb, N., Kennedy, C., *A New Survey for Carbon-Enhanced Metal-Poor Stars in the Halo(es) of the Galaxy*, **American Astronomical Society, AAS Meeting #221, 2013**



10. [Placco, V. M.](#); Beers, T. C., Rossi, S., Kennedy, C., Christlieb, N., Lee, Y. S., *Making Good Use of Bad Weather: Finding Extremely Metal-Poor Stars in the Clouds*, **Astronomical Society of the Pacific, Conference Proceedings**, **2012**, vol. 458 p.77 ([ADS](#))
9. [Placco, V. M.](#); Rossi, S., Beers, T. C., Lucatello, S., *Abundance Patterns Among Very Metal-Poor Stars in the Halo of the Galaxy: A Statistical Approach*, **Proceedings of the International Astronomical Union**, **2010**, vol. 262, p. 412-413 ([ADS](#))
8. [Placco, V. M.](#); Kennedy, C. R.; Rossi, S., Beers, T. C., Christlieb, N., Sivarani, T., *A Search for Unrecognized Carbon-Enhanced Metal-Poor Stars*, **Proceedings of the International Astronomical Union**, **2010**, vol. 265, p. 132-133 ([ADS](#))
7. Kennedy, C. R., Sivarani, T., Beers, T. C., Rossi, S., [Placco, V. M.](#), Johnson, J., Masseron, T., *Near-IR Spectroscopy of CEMP Stars with SOAR/OSIRIS*, **Proceedings of the International Astronomical Union**, **2010**, vol. 265, p. 126-127 ([ADS](#))
6. Kennedy, C., Beers, T. C., Nordstrom, B., [Placco, V. M.](#); Rossi, S., Sivarani, T., *CNO Abundances in Metal-Poor Stars*, **Proceedings of the 11th Symposium on Nuclei in the Cosmos**, **2010** ([ADS](#))
5. Kennedy, C. R., Sivarani, T., Beers, T. C., Rossi, S., [Placco, V. M.](#), Johnson, J., Masseron, T., *Near-IR Spectroscopy of CEMP Stars with OSIRIS*, **American Astronomical Society, AAS Meeting #213**, **2009**
4. Rossi, S., [Placco, V. M.](#); Beers, T. C., Marsteller, B., Kennedy, C. R., Sivarani, T., Masseron, T., Plez, B., *Refined Estimates of Carbon Abundances for Carbon-Enhanced Metal-Poor Stars*, **First Stars III Conference. AIP Conference Proceedings**, **2008**, vol. 990, pp. 154-156 ([ADS](#))
3. Rossi, S., [Placco, V. M.](#); Beers, T. C., Kennedy, C. R., Marsteller, B., *Refined Estimates of [Fe/H] and [C/Fe] in Metal-Poor Stars*, **Proceedings of the 10th Symposium on Nuclei in the Cosmos**, **2008** ([ADS](#))
2. Kennedy, C. R., Sivarani, T., Beers, T. C., Lee, Y. S., Rossi, S., [Placco, V. M.](#), *Near-IR Observations Of CEMP Stars With OSIRIS*, **American Astronomical Society, AAS Meeting #211**, **2007**
1. Lichtenthäler, R., Lépine-Szily, A., Guimarães, V., Perego, C., [Placco, V. M.](#), Camargo, O., Denke, R., de Faria, P., Benjamim, E., Kuramoto, R., Added, N., Lima, G., Hussein, M., Kolata, J., Arazi, A., *Radioactive Ion Beams in Brazil (RIBRAS)*, **Exotic Nuclei 2004. Proceedings of the International Symposium**, **2005**. ([ADS](#))

## 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 desafia modelos atuais de evolução do Universo](#)

Ravista 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\*](#)

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\*](#)

AboNewsCast (online)

[\*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\*](#)

Science Blog (online)

[\*Astronomers pinpoint how Milky Way Galaxy was formed\*](#)

EurekAlert! (online)

[\*Detailed Age Map Shows How Milky Way Came Together\*](#)

nano werk! (online)

[\*Detailed Age Map Shows How Milky Way Came Together\*](#)

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)

[\*Pesquisadores mapeiam a distribuição cronológica dos astros da Via Láctea\*](#)

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)

*Astrophysicists release new study of one of the first stars*

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*

JINA-CEE Newsletter (online)

*The First Age Map of the Galactic Halo*

**2015**

Jornal da USP (in Portuguese - online)

[\*Mapa permite estimar idade dos componentes da Via Láctea\*](#)

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\*](#)

The Observer (online and print)

[\*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)

[\*Astrophysicists produce the first age map of the halo of the Milky Way\*](#)

Notre Dame News (online)

[\*Astrophysicists produce the first age map of the halo of the Milky Way\*](#)

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\*](#)

Science 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\*](#)