

# Curriculum Vitæ - Vinicius Moris Placco

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## Personal information

Full name Vinicius [vee-nee-see-uh-s] Moris Placco  
Languages Portuguese (native), English (fluent),  
Spanish (intermediate), Italian (basic)  
  
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Tucson, AZ 85719, USA  
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Website <http://vmplacco.github.io/>  
e-mail [vmplacco@gmail.com](mailto:vmplacco@gmail.com)

## Employment / Appointments

2023– Head of the US National Gemini Office  
Community Science & Data Center  
NSF's National Optical-Infrared Astronomy Research Laboratory  
  
2022– Associate Astronomer  
Community Science & Data Center  
NSF's National Optical-Infrared Astronomy Research Laboratory  
  
2020–2022 Associate Scientist  
Community Science & Data Center  
NSF's 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

- 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 Co-coordinator of the Stellar Parameters Value-Added Catalog Group of the J-PLUS Survey
- 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’s NOIR Lab 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’s 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  
 Migration and maintenance of the [US NGO Portal](#)  
 Migration and maintenance of the [GMOS Cookbook](#)  
 Gemini HelpDesk – Responsible for selected Tiers 2 and 3 inquiries
- 2021–present **NSF’s 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)  
 Add/moderate content for scientific meetings in the [Science Events database](#)
- 2021–2022 **NSF’s 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 university staff and IT personel to ensure physical 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

2023–2025 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

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

## Academic Experience

### Student/Postdoc supervision

#### Postdoctoral level

2022–2023 Felipe de Almeida Fernandes ([Universidade de São Paulo](#) - Visiting Fellow at NSF's NOIRLab)

#### Graduate Level (co-advisor)

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

#### Undergraduate Level (advisor) - 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 Norte 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**

- 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

## 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

### Computing 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 American Astronomical Society Journals  
Referee for the AAAS Science Magazine  
Referee for Astronomy & Astrophysics  
Referee for Monthly Notices of the Royal Astronomical Society

## \* Invited / Contributed talks

### 2023

DELVE Collaboration Meeting

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

XIX J-PAS Collaboration Meeting

*An R-process Enhanced Extremely Metal-Poor Star Identified with Narrow-band Photometry*

- \* 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*

Observatório Nacional – S-PLUS 18th Collaboration Meeting

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

- \* NSF's NOIRLab – NOIRLab South Colloquium  
*What else can you find when looking for Carbon Enhanced Ultra Metal-Poor Stars? A GHOST Story*

NSF's NOIRLab – GHOST Webinar Series

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

- \* Lund University  
*What else can you find when looking for Ultra Metal-Poor Stars?*

NSF's NOIRLab – SWEETS (Support Work Education and Exchange Talk Series)

*The US National Gemini Office*

### 2022

Centro de Estudios de Física del Cosmos de Aragón – 18th J-PAS Collaboration Meeting

*The miniJPAS survey: stellar atmospheric parameters from 56 optical filters*

NSF's NOIRLab – DECam at 10 years - Looking Back, Looking Forward

*Searching for Chemically Pristine Stars with Narrowband Photometry*

Centro Brasileiro de Pesquisas Físicas – S-PLUS 17th Collaboration Meeting

*Mining S-PLUS for Metal-Poor Stars in the Milky Way*

- \* Planetário da Gávea, Rio de Janeiro – O Céu do Sul e suas Maravilhas  
*SPLUS J2104–0049 e a Evolução Química do Universo*
- \* Universidade de São Paulo – Astronomia ao Meio-dia (watch it on Youtube – in Portuguese)  
*A Tabela Periódica Astrofísica*
- \* Universidade de São Paulo – Astrophysics Colloquium (watch it on Youtube)  
*Is Carbon Ubiquitous in the High-Redshift Universe? A Stellar Archaeology perspective*
- Gemini Observatory Science Meeting 2022  
*Making good use of bad weather: a chemically pristine star found through the clouds with Gemini*
- \* Observatório Nacional – Seminário da Coordenação de Astronomia e Astrofísica  
*Stellar Archaeology and Near-Field Cosmology: Understanding the Chemical Evolution of the Universe*

### 2021

Universidade de São Paulo – S-PLUS 16th Collaboration Meeting

*Mining the S-PLUS catalog to find chemically peculiar stars in the Galaxy*

- \* Instituto Nacional de Pesquisas Espaciais – Seminários da Divisão de Astrofísica (watch it on Youtube)  
*Stellar Archaeology and Near-Field Cosmology: Understanding the Chemical Evolution of the Universe*
- \* 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*
- \* 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*

Universidade de São Paulo – [S-PLUS 15th Collaboration Meeting](#)  
[Searching for low-metallicity stars in S-PLUS](#)

- \* NSF's National Optical-Infrared Astronomy Research Laboratory – [Live from NOIRLab @ Hawai'i](#) (watch it on [Youtube](#))  
[A chemically-peculiar star found from its colors](#)

## 2020

- \* NSF's National Optical-Infrared Astronomy Research Laboratory – [Live from NOIRLab @ Hawai'i](#) (watch it on [Youtube](#))  
[The Age and Chemical Evolution of the Universe from Two Stars in the Milky Way](#)
- \* NSF's National Optical-Infrared Astronomy Research Laboratory – Gemini Observatory Science Coffee  
[From  \$R=40\$  to  \$R=40,000\$ : Mining narrow-band photometric catalogs in search of low-metallicity stars](#)
- \* 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](#)
- \* Regional Center for Space Science and Technology Education for West Asia / Arab Union for Astronomy & Space Science  
[Our eyes in the skies: How telescopes help us place ourselves in the Universe](#)
- \* NSF's National Optical-Infrared Astronomy Research Laboratory  
[Near-Field Cosmology with Narrow-Band Photometry and Spectroscopy of Low-Metallicity Stars](#)
- \* Universidade de São Paulo – Astrophysics Colloquium  
[Near-Field Cosmology using Narrow-Band Photometry and Low-Metallicity Stars](#)
- \* 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

- \* National Optical Astronomy Observatory  
[Stellar Archaeology: Understanding the Chemical Evolution of the Universe through Color Maps of the Night Sky](#)
- \* 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](#)
- Consejo Superior de Investigaciones Científicas – 17th J-PAS Collaboration Meeting  
[Identification of Low-Metallicity Stars from Narrow-Band Photometry](#)
- \* 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

- \* 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](#)
- Kavli IPMU at The University of Tokyo – [Introduction to Stellar Archaeology](#)  
[Radioactive Stellar Ages](#)
- \* 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](#)
- \* 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](#)
- \* Korea Astronomy and Space Science Institute [Colloquium](#)  
[Constraints on Near-Field Cosmology through Abundance Pattern Matching of Ultra Metal-Poor Stars](#)
- \* Universidade de São Paulo – [Astronomy Colloquium](#)  
[The Southern Photometric Local Universe Survey \(S-PLUS\): An Overview](#)
- Universidade de São Paulo – [S-PLUS Meeting](#)  
[Short update on S-PLUS SHORTS](#)
- University of Notre Dame – Astronomy 1-minute talks (23 presenters)

*Organizer*

- \* University of Notre Dame – [Our Universe Revealed](#)  
*A day in the life of an Astronomer*
- Kavli Institute for Cosmological Physics – [Near-Field Cosmology with the Dark Energy Survey](#)  
*The Age Structure of the Milky Way Halo revealed by DES*
- \* 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?*
- Centro de Estudios de Física del Cosmos de Aragón – J-PLUS 2<sup>nd</sup> Virtual Meeting  
*J-PLUS Stellar Parameter Value Added Catalog*
- \* 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*
- \* JINA-CEE Frontiers in Nuclear Astrophysics – [Main Conference](#)  
*Observational constraints on the origin of the elements: from First stars to Neutron-Star mergers*
- \* Manhattan College – Physics Department  
*Understanding the Origin of the Elements in the Universe through a 12-Color Map of the Night Sky*
- \* JINA-CEE Frontiers in Nuclear Astrophysics – [Junior Workshop](#)  
*Speaking Skills*
- \* 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*
- Universidade de São Paulo – S-PLUS Collaboration Meeting (online)  
*Updates on S-PLUS Short Survey(s)*

**2017**

- Universidade de São Paulo – S-PLUS Collaboration Meeting (online)  
*Updates on S-PLUS Short Survey(s)*
- \* Michiana Astronomical Society – [MAS monthly meeting speaker](#)  
*A Tale of Two Stars: Revealing the Age and Chemical Evolution of the Universe*
- University of Notre Dame – Astro-Skills Lunch  
*The do's and don'ts when plotting data*
- 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*
- 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)
- University of Notre Dame – [The Great American Eclipse at Notre Dame](#)  
Co-organizer / Astronomy faculty representative – 3,500 attendees
- \* 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*
- 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*
- \* 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*
- \* Universidade de São Paulo – [Astrophysics Colloquium](#)  
*Searching for the Origin of the Elements Using a 12-Color Map of the Night Sky*

**2016**

- \* University of Notre Dame – [Astrophysics Seminar](#)  
*A Monte Carlo approach to find the Progenitors of Ultra Metal-Poor Stars*

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

## 2015

- 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?*  
University of Notre Dame – Astronomy 1-minute talks (15 presenters)  
*Organizer*
- \* 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*
- \* Michigan State University – JINA-CEE Nuclear Astrophysics Lunch Research Discussions  
*Observing the First Stars through the Atmospheres of Ultra Metal-Poor Stars*  
Universidade de São Paulo – X-PLUS Collaboration Meeting  
*Identifying Carbon-Enhanced Metal-Poor Stars from S-PLUS Photometry*  
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

- \* University of Notre Dame – Astronomy Seminar  
*Exploring the history of the Galactic halo with Carbon-Enhanced Metal-Poor stars*
- \* Massachusetts Institute of Technology – Kavli Institute  
*Exploring the history of the Galactic halo with Carbon-Enhanced Metal-Poor stars*

## 2013

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

## 2012

- \* Universidade Cruzeiro do Sul - Astronomy Colloquium  
*Search for Carbon-Enhanced Metal-Poor stars in the Halo(es) of the Galaxy*
- \* Universidade de São Paulo - Astronomy Colloquium  
*Spectroscopy from  $R=300$  to 30000: metal-poor stars and Galactic chemical evolution*

- \* Universidade de São Paulo - Invitation to Physics: undergraduate weekly seminar  
*Galactic Archaeology: chemical evolution of the Universe revealed by metal-poor stars*
- Universidade de São Paulo - Astronomy at noon: undergraduate weekly seminar  
*Census of the Milky Way*

## 2011

- Universidade de São Paulo - Chemical Evolution Group Seminar  
*Rediscovering the Dual Halo of the Milky Way via Hierarchical Clustering*
- Universidade de São Paulo - Astronomy at noon: undergraduate weekly seminar  
*Stellar Archaeology*
- Universidade de São Paulo - Astronomy Colloquium  
*Making good use of bad weather: finding extremely metal-poor stars in the clouds*
- \* ESO Headquarters - Santiago - Astronomy Colloquium  
*Searches for Metal-Poor Stars from the Hamburg/ESO Survey using the CH G-band*



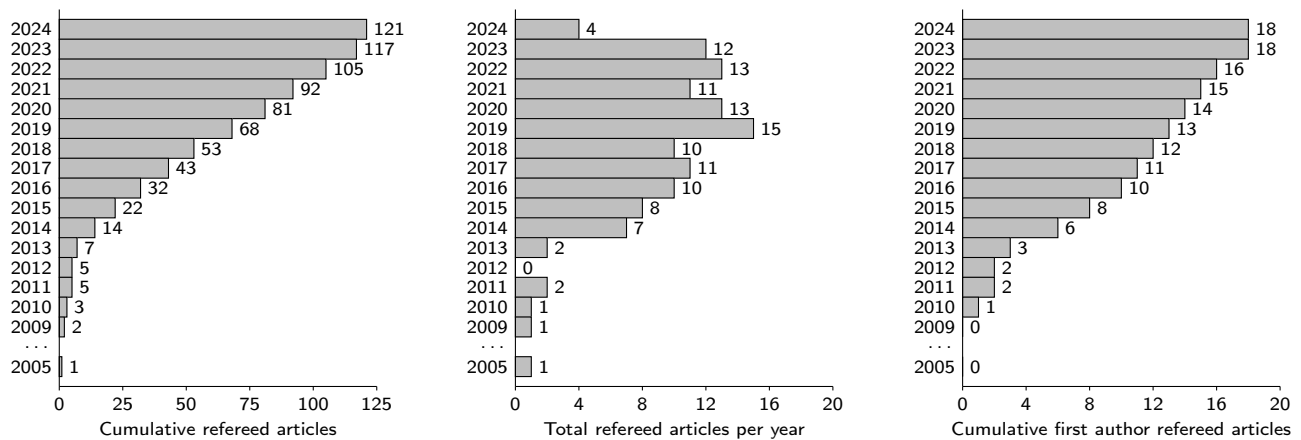
## Quantitative Indicators

- ADS: **7969 citations** / **h-index = 40** / **i10-index = 97** (December 31, 2023 - [ADS link](#))
- Google Scholar: **9390 citations** / **h-index = 45** / **i10-index = 97** (December 31, 2023 - [Google Scholar link](#))
- ADS Publication List (complete - [ADS link](#)) / (refereed only - [ADS link](#))
- ORCID iD - [0000-0003-4479-1265](#) / ResearcherID - [C-6864-2015](#)

## Publication list

### Refereed articles

Total: 121 publications (incl. 18 first, 12 second, 17 third, and 17 fourth author articles)



121. 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**, submitted
120. 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., Gamén, 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**, in press
119. 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](#) | [PDF](#))
118. 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](#) | [PDF](#))

- 117. 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., Martoli, 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](#) | [PDF](#))
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](#) | [PDF](#))
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](#) | [PDF](#))
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](#) | [PDF](#))
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](#) | [PDF](#))
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., Sodrè Jr., L., Vázquez Ramió, 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](#) | [PDF](#))
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](#) | [PDF](#))
110. Zepeda, J., Beers, T. C., **Placco, V. M.**, Shank, D., Gudín, 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](#) | [PDF](#))
- 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](#) | [PDF](#))
108. Garro, E. R., Fernández-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., Afşar, M., Frelíj, H., Lane, R. R.  
*Gaia-IGRINS synergy: Orbits of Newly Identified Milky Way Star Clusters*  
**2023**, *Astronomy & Astrophysics*, vol. 669, A136 ([ADS](#) | [PDF](#))
107. Shank, D., Beers, T., **Placco, V. M.**, Gudín, 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](#) | [PDF](#))

106. Yuan, H. -B., Yang, L., Cruz, P., Jiménez-Esteban, F., Daflon, S., **Placco, V. M.**, Akas, S., Alfaro, E. J., Galarza, C. A., Gonçalves, D., Liu, J. -F., Cenarro, A., Marín-Franch, A., Varela, J., Ederoclite, A., López-Sanjuan, C., Abramo, R., Alcaniz, J., Benítez, N., Bonoli, S., Cristóbal-Hornillos, D., Dupke, R. A., Hernán-Caballero, A., Mendes de Oliveira, C., Moles, M., Sodré Jr., L. Vázquez Ramió, 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](#) | [PDF](#))

105. Schatz, H., Becerril Reyes, A. D., Best, A., Brown, E. F., Chatziioannou, 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., Côté, 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., Fröhlich, 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](#) | [PDF](#))

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., Sobek, 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](#) | [PDF](#))

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](#) | [PDF](#))

- 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](#) | [PDF](#))

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](#) | [PDF](#))

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](#) | [PDF](#))

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](#) | [PDF](#))

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](#) | [PDF](#))
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](#) | [PDF](#))
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](#) | [PDF](#))
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](#) | [PDF](#))
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., Sodré Jr., L., Angulo, R.  
*J-PLUS: Searching for very metal-poor star candidates using the SPEEM pipeline*  
**2022**, *Astronomy & Astrophysics*, vol. 657, A35 ([ADS](#) | [PDF](#))
92. López-Sanjuan, C., Yuan, H., Vázquez Ramió, H., Varela, J., Cristóbal-Hornillos, D., Tremblay, P. -E., Marín-Franch, A., Cenarro, A., Ederoclite, A., Alfaro, E., Alvarez-Candal, A., Daflon, S., Hernán-Caballero, A., Hernández-Monteagudo, C., Jiménez-Esteban, F., **Placco, V. M.**, Tempel, E., Alcaniz, J., Angulo, R., Dupke, R., Moles, M., Sodré Jr., L.  
*J-PLUS: Systematic impact of metallicity on photometric calibration with the stellar locus*  
**2021**, *Astronomy & Astrophysics*, vol. 654, A61 ([ADS](#) | [PDF](#))
91. Bonoli, S., Marín-Franch, A., Varela, J., Vázquez Ramió, H., Abramo, L. R., Cenarro, A. J., Dupke, R. A., Vilchez, J. M., Cristóbal-Hornillos, D., González Delgado, R. M., Hernández-Monteagudo, C., López-Sanjuan, C., Muniesa, D., Civera, T., Ederoclite, A., Hernán-Caballero, A., Marra, V., Baqui, P., Cortesi, A., Cypriano, E., Daflon, S., de Amorim, A., Díaz-García, L., Diego, J., Martínez-Solaesche, G., Pérez, E., **Placco, V. M.**, et al.  
*The miniJPAS survey: a preview of the Universe in 56 colours*  
**2021**, *Astronomy & Astrophysics*, vol. 653, A31 ([ADS](#) | [PDF](#))
90. Arentsen, A., Starkenburg, E., Aguado, D. S., Martin, N. F., **Placco, V. M.**, Carlberg, R., González Hernández, 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](#) | [PDF](#))

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](#) | [PDF](#))
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](#) | [PDF](#))
- 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](#) | [PDF](#))
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.  
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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**
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## Telescope time allocations

**Approved observing projects: 169**

**Total awarded: 6523.57 hours**

### Principal Investigator

**Approved observing projects: 51**

**Total awarded: 1771.80 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: 118**

**Total awarded: 4751.77 hours**

118. 2022B - Gemini South - GS-2022B-Q-227 (Band 2): 7.10 hours
117. 2022B - Gemini South - GS-2022B-Q-318 (Band 3): 10.96 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

## Press releases, articles, and media resources

### 2023

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 Via 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)  
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