

# Curriculum Vitæ - Vinicius Moris Placco

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## Personal information

Full name Vinicius Moris Placco  
Nationality Brazilian and Italian; US permanent resident  
Languages Portuguese (native), English (fluent),  
Spanish (intermediate), Italian (basic)  
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Granger, IN 46530 - USA  
Phone +1 (520) 468-8215  
Website <http://vmplacco.github.io/>  
e-mail [vmplacco@gmail.com](mailto:vmplacco@gmail.com)

## Employment / Appointments

2015– Research Assistant Professor  
Department of Physics  
University of Notre Dame  
2018– 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

## 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

- 2018–present Member of the J-PAS Survey Science Committee ([Javalambre Physics of the Accelerating Universe Survey](#))
- 2017–present Member of the S-PLUS Advisory Committee ([Southern Photometric Local Universe Survey](#))
- 2017–present Principal Investigator of the S-PLUS Short Survey
- 2020–present Hubble Space Telescope External Proposal reviewer
- 2019–present Member of the NSF's OIR Lab Time Allocation Committee - Galactic Panel 2
- 2018–present Member of the J-PAS Survey Data Validation group
- 2017–present US representative for the [Gemini Observatory Users Committee](#)
- 2017–present Subaru Telescope Proposal reviewer – category group: Normal Stars, Metal-Poor Stars
- 2018–present Co-coordinator of the Resolved Stellar Population Working Group of the J-PAS Survey
- 2018–present Member of the US Extremely Large Telescope Program – [First Stars Key Science Project](#)
- 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
- 2018–2019 Member of the NOAO Time Allocation Committee - Galactic Panel 2
- 2017–2018 Member of the Gemini OCS Upgrades Working Group

### Operations and Instrument/User Support

- 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	5	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

- 2018–2020 Hubble Space Telescope (Co-PI)  
*The Unexplored Domains of the s-Process*  
Space Telescope Science Institute (USD 119,104)
- 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)
- 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)

#### Pending

- 2020–2023 Hubble Space Telescope (PI)  
*Observing Proposal for Cycle 28*  
Space Telescope Science Institute (Budget TBD)
- 2020–2023 NSF - Division of Astronomical Sciences (PI)  
*Astronomy and Astrophysics Research Grant*  
National Science Foundation (USD 320,618)

#### Past (Total: USD 255,393)

- 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

- 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

### Teaching

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

#### Undergraduate

##### University of Notre Dame

- |      |      |   |
|------|------|---|
| 2020 | (LI) | Descriptive Astronomy (SU20-PHYS-10140)                                   |
|      | (LI) | Descriptive Astronomy (SP20-PHYS-10140)                                   |
|      |      | Course Instructor Feedback: 5.0/5.0 - <a href="#">link to full report</a> |
|      | (LI) | General Physics B - E & M Laboratory (SP20-PHYS-11422)                    |
|      |      | 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)                        |
|      |      | Course Instructor Feedback: 5.0/5.0 - <a href="#">link to full report</a> |
|      | (LI) | <a href="#">Descriptive Astronomy</a> (SU19-PHYS-10140)                   |
|      |      | 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)                    |
|      |      | 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     |

## Student/Postdoc supervision

### Postdoctoral level

2019–present Hélio Dotto Perottoni ([Universidade de São Paulo](#))

### Graduate Level (co-advisor) - University of Notre Dame

2020–present Guilherme Limberg (Universidade de São Paulo)

2019–present Carlos Andrés Galarza Arevalo ([Observatório Nacional - Brazil](#))

2019–2020 Joseph Zepeda

2019–2020 Derek Shank

2015–2020 Sarah Dietz

2015–2020 Dmitrii Gudin

2015–2020 Devin Whitten

2015–2020 Erika Holmbeck

2015–2020 Kaitlin Rasmussen

2015–2017 Geoffrey Lentner

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)

2018–2020 Guilherme Limberg (Universidade de São Paulo)

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–present 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

2019 Heitor Ernandes (Ph.D. - committee chair)

Universidade de São Paulo

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



## 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  
Graphics: Gnuplot, ggplot2, matplotlib, bokeh, tableau  
Data reduction: IRAF/Pyraf/Gemini packages, focused on spectroscopy  
Astronomy tools: WCSTools, CDSclient, STILTS, SkyCalc  
Version control: Git

### 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

### 2020

- \* [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](#)  
*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*

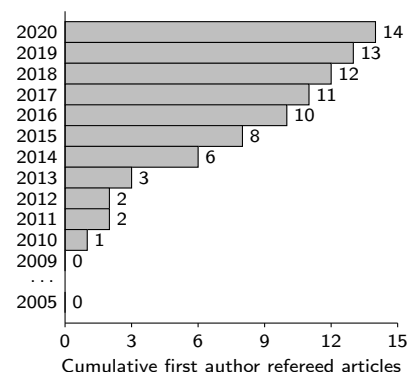
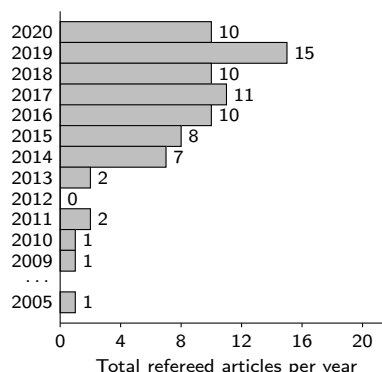
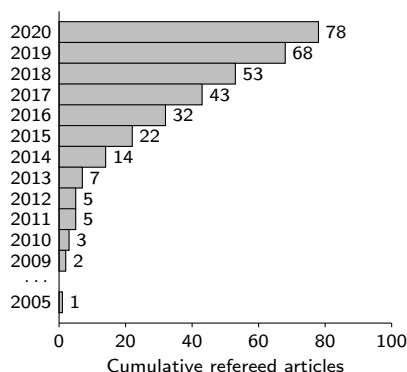
## Quantitative Indicators

- ADS: **3474 citations** / **h-index = 27** / **i10-index = 58** (July 7, 2020 - [ADS link](#))
- Google Scholar: **3974 citations** / **h-index = 29** / **i10-index = 56** (July 7, 2020 - [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: 78 publications (14 first author, 8 second author, 10 third author)



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## Telescope time allocations

**Approved observing projects: 139**

**Total awarded: 6082.36 hours**

### Principal Investigator

**Approved observing projects: 44**

**Total awarded: 1555.55 hours**

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: 95**

**Total awarded: 4526.81 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

### 2020

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*