

Curriculum Vitæ - Vinicius Moris Placco

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Contact information

Full name Vinicius Moris Placco
Work Address 334 Nieuwland Science Hall
Notre Dame, IN 46556 - USA
Phone number +1 (574) 631-2865
Website <http://www.nd.edu/~vplacco>
e-mail vplacco@nd.edu

Employment

2015 Research Assistant Professor
Department of Physics
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

Research Experience

Funding

- 2016–2018 Hubble Space Telescope (Co-I)
The Unexplored Domains of the s-Process
Space Telescope Science Institute
Value: \$119,501
- 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
Value: \$10,000
- 2015–2016 Hubble Space Telescope (Co-I)
The First Detections of Phosphorus, Sulphur, and Zinc in a Bona-Fide Second-Generation Star
Space Telescope Science Institute
Value: \$85,293

Short term visits

- 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
Funding: FAPESP (Brazil)
- 2013 New Mexico State University
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)

Scholarships

- 2013–2014 Postdoctorate – FAPESP (12/13722-1) – National Optical Astronomy Observatory
(re)discovery and analysis of metal-poor stars in the Milky Way
- 2010–2013 Postdoctorate – FAPESP (10/08996-0) – Universidade de São Paulo
The Milky Way Halo revisited
- 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

Academic Experience

Teaching

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

- 2017 (LI) General Physics B - E & M Laboratory (SP17-PHYS-11422)
University of Notre Dame
- 2017 (GL) Astrophysics: Stars (SP17-PHYS-80202)
University of Notre Dame
- 2016 (GL) Descriptive Astronomy (FA16-PHYS-10140)
University of Notre Dame
- 2016 (CI) Large-Scale Astronomical Surveys (SP16-PHYS-70210)
University of Notre Dame
- 2015 (GL) Modern Observational Techniques (FA15-PHYS-30481)
University of Notre Dame
- 2015 (GL) Astrophysics: Stars (SP15-PHYS-80202)
University of Notre Dame
- 2012 (GL) Observational Astronomy
Universidade de São Paulo
- 2012/2011 (LI) Sky and Stars: An introduction
Universidade Virtual do Estado de São Paulo
- 2012/2011 (LI) Galaxies: An introduction
Universidade Virtual do Estado de São Paulo

Teaching Assistant - Universidade de São Paulo

- 2009/2008 Introduction to Astronomy
- 2009/2007 Fundamental Astronomy

Student co-supervision

Graduate Level - University of Notre Dame

- 2015–present Devin Whitten
- 2015–present Kaitlin Rasmussen
- 2015–present Erika Holmbeck
- 2015–present Sarah Dietz
- 2015–present Dmitrii Gudín
- 2015–2017 Geoffrey Lentner
- 2012–2016 Rafael Santucci (Ph.D. - Universidade de São Paulo)
- 2010–2012 Rafael Santucci (M.Sc. - Universidade de São Paulo)

Undergraduate Level - University of Notre Dame

2016–present Erik Peterson
2016–present David Kalamarides
2015–present Spencer Clark
2016–present John Roach
2016–present Cristobal Gonzales
 2016 Michael Kurkowski
 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

2016–present Graduate Recruitment, Department of Physics
2015–present Preliminary Exam Committee, Department of Physics
2015–present University Committee on Research & Sponsored Programs, Notre Dame Research

Thesis Committees

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**Observatory related experience**

2008–present SOAR Telescope: 40+ nights – remote observations
2010–present Gemini Observatory: Phase I / Phase II programs
2011–present ESO/NTT Telescope: 12 nights in visitor mode
2013–present KPNO/Mayall Telescope: 20+ nights in visitor/remote mode
 2014–2015 Gemini North Telescope: 12 nights in queue mode - observer
 2014–2015 Part of GMOS and GRACES instrument teams on Gemini North, working
 on data quality assessment and instrument performance monitoring
2008–2012 Responsible for the SOAR Telescope remote observing room at Universidade de São Paulo
2013 McDonald 2.1m Telescope: 4 nights in visitor mode

Professional Societies and Committees

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 Astrophysical Journal

Computing skills

Linux/Unix/MACOSX operating systems

Advanced Shell Scripting (Linux/Unix/MACOSX)

LaTeX, Gnuplot, OpenOffice, MS Office. Co-author of the LaTeX template [IAGTESE](#)

IRAF/Pyraf/Gemini packages, focused on spectroscopy

Basic IDL/Python/R-project/SQL (PostgreSQL/pgAdmin3)

Invited / Contributed talks

2017

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

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

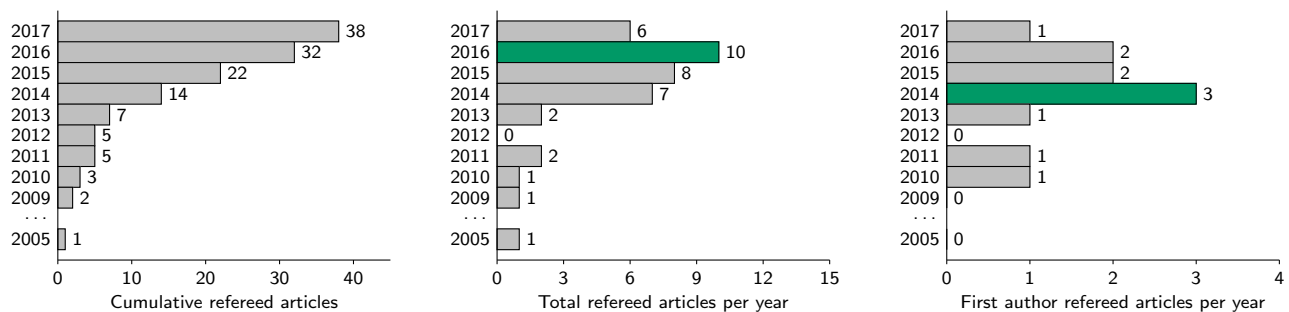
Quantitative Indicators / Online Resources

- ADS Publication List (complete) - [ADS link](#)
- ADS Publication List (refereed only) - [ADS link](#)
- ADS: 488 citations / h-index = 14 (May 25, 2017) - [ADS link](#)
- Google Scholar: 572 citations (May 25, 2017) - [Google Scholar link](#)
- LinkedIn profile - [LinkedIn](#)
- Lattes CV (Portuguese) - <http://lattes.cnpq.br/3823583122860034>
- ResearcherID profile - [ResearcherID](#)

Publication list

Refereed articles

Total: 38 publications (11 as first author)



38. [Placco, V. M.](#), Holmbeck, E. M., Frebel, A., Beers, T. C., Surman, R. A., Ji, A. P., Ezzedine, R., Points, S. D., Kaleida, C. C., Hansen, T. T., Sakari, C. M., Casey, A. R.
RAVE J203843.2–002333: The First Highly R-process-enhanced Star Identified in the RAVE Survey.
2017, *The Astrophysical Journal*, in press
37. Kielty, C. L., Venn, K. A., Loewen, N. B., Shetrone, M., [Placco, V. M.](#), Jahandar, F., Mészáros, Sz., Martell, S.
Carbon-enhanced metal-poor stars in the SDSS-APOGEE database
2017, *Monthly Notices of the Royal Astronomical Society*, in press
36. Reggiani, H., Meléndez, J., Kobayashi, C., Karakas, A., Ramírez, I., [Placco, V. M.](#)
Constraining cosmic scatter in the Galactic Halo through a differential analysis of Metal Poor Stars
2017, *Astronomy & Astrophysics*, in press
35. Lee, Y. S., Beers, T. C., Kim, Y. K., [Placco, V. M.](#), Yoon, J., Carollo, D., Masseron, T., Jung, J.
Chemical Cartography. I. A Carbonicity Map of the Galactic Halo
2017, *The Astrophysical Journal*, vol. 836, 91 ([ADS link](#))
34. Beers, T. C., [Placco, V. M.](#), Carollo, D., Rossi, S., Lee, Y. S., Frebel, A., Norris, J. E., Dietz, S., Masseron, T.
Bright Metal-Poor Stars from the Hamburg/ESO Survey. II. A Chemodynamical Analysis
2017, *The Astrophysical Journal*, vol. 835, 81 ([ADS link](#))
33. van Weeren, R. J., Andrade-Santos, F., Dawson, W. A., Golovich, N., Lal, D. V., Kang, H., Ryu, D., Brüggén, M., Ogrean, G. A., Forman, W. R., Jones, C., [Placco, V. M.](#), Santucci, R. M., Wittman, D., Jee, M. J., Kraft, R. P., Sobral, D., Stroe, A., Fogarty, K.
The Case for Electron Re-Acceleration at Galaxy Cluster Shocks
2017, *Nature Astronomy*, vol. 1, 5 ([Nature Astronomy link](#) / [Issue cover](#))

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32. Carollo, D., Beers, T., **Placco, V. M.**, Santucci, R. M., Denissenkov, P., Tissera, P. B., Lentner, G., Rossi, S., Lee, Y. S., Tumlinson, J.
The age structure of the Milky Way's halo
2016, Nature Physics, vol. 12, 1170 ([Nature Physics link](#) / [Issue cover](#))
 31. **Placco, V. M.**, Frebel, A., Beers, T. C., Yoon, J., Chiti, A., Heger, A. Chan, C., Casey, A. R., Christlieb, N.
Observational Constraints on First-Star Nucleosynthesis. II. Spectroscopy of an Ultra Metal-Poor CEMP-no Star
2016, The Astrophysical Journal, vol. 833, 21 ([ADS link](#))
 30. Yoon, J., Beers, T., **Placco, V. M.**, Rasmussen, K., Carollo, D., He, S., Hansen, T. T., Roederer, I. U.
Observational Constraints on First-Star Nucleosynthesis. I. Evidence for Multiple Progenitors of CEMP-no Stars
2016, The Astrophysical Journal, 833, 20 ([ADS link](#))
 29. Hasselquist, S., Shetrone, M., Cunha, K., Smith, V. V., Holtzman, J., Lawler, J. E., Beers, T. C., Chojnowski, D., Fernández-Trincado, J. G., García-Hernández, D. A., Hearty, F. R., Majewski, S. R., Pereira, C. B., **Placco, V. M.**, Villanova, S., Zamora, O.
Identification of Neodymium in the APOGEE H-band Spectra
2016, The Astrophysical Journal, vol. 833, 81 ([ADS link](#))
 28. **Placco, V. M.**, Beers, T. C., Reggiani, H., Meléndez, J.
G64–12 and G64–37 are Carbon-Enhanced Metal-Poor Stars
2016, The Astrophysical Journal Letters, vol. 829, 24 ([ADS link](#))
 27. Roederer, I. U., **Placco, V. M.**, Beers, T. C.
Detection of Phosphorus, Sulphur, and Zinc in the Carbon-Enhanced Metal-Poor Star BD+44° 493
2016, The Astrophysical Journal Letters, vol. 824, 19 ([ADS link](#))
 26. Hansen, C. J., Nordström, B., Hansen, T., Kennedy, C. R., **Placco, V. M.**, Beers, T. C., Andersen, J., Cescutti, G., Chiappini, C.
Abundances of carbon-enhanced metal-poor stars as constraints on their formation
2016, Astronomy & Astrophysics, vol. 588, A37 ([ADS link](#))
 25. Hansen, T., Andersen, J., Nordström, B., Beers, T., **Placco, V. M.**, Yoon, J., Buchhave, L.
The role of binaries in the enrichment of the early Galactic halo.III. Carbon-Enhanced Metal-Poor Stars - CEMP-s
2016, Astronomy & Astrophysics, vol. 588, A3 ([ADS link](#))
 24. Hansen, T., Andersen, J., Nordström, B., Beers, T., **Placco, V. M.**, Yoon, J., Buchhave, L.
The role of binaries in the enrichment of the early Galactic halo.II. Carbon-Enhanced Metal-Poor Stars - CEMP-no
2016, Astronomy & Astrophysics, vol. 586, A160 ([ADS link](#))
 23. Meléndez, J., **Placco, V. M.**, Tucci-Maia, M., Ramírez, I., Li, T. S., Perez, G.,
2MASS J1808–5104: The Brightest (V=11.9) Ultra Metal-Poor Star
2016, Astronomy & Astrophysics - Letter to the Editor, vol. 585, L5 ([ADS link](#))
 22. Hollek, J., Frebel, A., **Placco, V. M.**, Karakas, A., Shetrone, M., Sneden, C., Christlieb, N.
The Chemical Abundances of Stars in the Halo (CASH) Project. III. A New Classification Scheme for Carbon-Enhanced Metal-poor Stars with S-process Element Enhancement
2015, The Astrophysical Journal, vol. 812, 121 ([ADS link](#))
 21. An, D., Beers, T. C., Santucci, R. M., Carollo, D., **Placco, V. M.**, Lee, Y. S., Rossi, S.
The Fractions of Inner- and Outer-Halo Stars in the Local Volume as Revealed by SDSS Photometry of Stripe 82
2015, The Astrophysical Journal Letters, vol. 813, 28 ([ADS link](#))
 20. Santucci, R. M., Beers, T. C., **Placco, V. M.**, Carollo, D., Rossi, S., Lee, Y. S., Denissenkov, P., Tumlinson, J., Tissera, P. B.
Chronography of the Milky Way's Halo System with Field Blue Horizontal-Branch Stars
2015, The Astrophysical Journal Letters, vol. 813, 16 ([ADS link](#))
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19. **Placco, V. M.**, Beers, T. C., Ivans, I. I., Filler, D., Imig, J. A., Roederer, I., Abate, C., Hansen, T., Cowan, J., Frebel, A., Lawler, J. E., Schatz, H., Sneden, C., Sobeck, J., Aoki, W., Smith, V. V., Bolte, M.
Hubble Space Telescope Near-Ultraviolet Spectroscopy of the Bright CEMP-s Stars
2015, *The Astrophysical Journal*, vol. 812, 109 ([ADS link](#))
18. Frebel, A., Chiti, A., Ji, A. P., Jacobson, H. R., **Placco, V. M.**
SD 1313–0019 – Another second-generation star with $[Fe/H] = -5.0$, observed with the Magellan Telescope
2015, *The Astrophysical Journal Letters*, vol. 810, 27 ([ADS link](#))
17. **Placco, V. M.**, Frebel, A., Lee, Y. S., Jacobson, H. R., Beers, T. C., Pena, J. M., Chan, C., Heger, A.
Metal-poor Stars Observed with the Magellan Telescope. III. New Extremely and Ultra Metal-Poor Stars from SDSS/SEGUE and Insights on the Formation of Ultra Metal-Poor Stars
2015, *The Astrophysical Journal*, vol. 809, 136 ([ADS link](#))
16. Hansen, T., Hansen, C. J., Christlieb, N., Beers, T. C., Yong, D., Bessell, M. S., Frebel, A., García Pérez, A. E., **Placco, V. M.**, Norris, J. E., Asplund, M.
An Elemental Assay of Very, Extremely, and Ultra Metal-Poor Stars
2015, *The Astrophysical Journal*, vol. 807, 173 ([ADS link](#))
15. Santucci, R. M., **Placco, V. M.**, Rossi, S., Beers, T. C., Reggiani, H. M., Lee, Y. S., Xue, X. X., Carollo, D.
The Frequency of Field Blue-Straggler Stars in the Thick Disk and Halo System of the Galaxy
2015, *The Astrophysical Journal*, vol. 801, 116 ([ADS link](#))
14. **Placco, V. M.**, Beers, T. C., Frebel, A., Stancliffe R.
Carbon-Enhanced Metal-Poor Star Frequencies in the Galaxy: Corrections for the Effect of Evolutionary Status on Carbon Abundances
2014, *The Astrophysical Journal*, vol. 797, 21 ([ADS link](#))
13. Beers, T. C., Norris, J. E., **Placco, V. M.**, Lee Y. S., Rossi S., Carollo, D., Masseron, T.
Population Studies. XIII. A New Analysis of the Bidelman-MacConnell “Weak-metal” Stars - Confirmation of Metal-poor Stars in the Thick Disk of the Galaxy
2014, *The Astrophysical Journal*, vol. 794, 58 ([ADS link](#))
12. **Placco, V. M.**, Beers, T. C., Roederer, I., Cowan, J., Frebel, A., Filler, D., Ivans, I. I., Lawler, J. E., Schatz, H., Sneden, C., Sobeck, J., Aoki, W., Smith, V. V.
Hubble Space Telescope Near-Ultraviolet Spectroscopy of the Bright CEMP-no Star BD+44° 493
2014, *The Astrophysical Journal*, vol. 790, 34 ([ADS link](#))
11. Carollo, D., Freeman, K., Beers, T. C., **Placco, V. M.**, Tumlinson, J., Martell, S. L.
Carbon-enhanced Metal-poor Stars: CEMP-s and CEMP-no Subclasses in the Halo System of the Milky Way
2014, *The Astrophysical Journal*, vol. 788, 180 ([ADS link](#))
10. Hansen, T., Hansen, C. J., Christlieb, N., Yong, D., Bessell, M. S., García Pérez, A. E., Beers, T. C., **Placco, V. M.**, Frebel, A., Norris, J. E., Asplund, M.
Exploring the Origin of Lithium, Carbon, Strontium, and Barium with Four New Ultra Metal-poor Stars
2014, *The Astrophysical Journal*, vol. 787, 162 ([ADS link](#))
9. Kennedy, C. R., Stancliffe, R. J., Kuehn, C., Beers, T. C., Kinman, T. D., **Placco, V. M.**, Reggiani, H., Rossi, S., Lee, Y. S.
Seven New Carbon-enhanced Metal-poor RR Lyrae Stars
2014, *The Astrophysical Journal*, vol. 787, 6 ([ADS link](#))
8. **Placco, V. M.**, Frebel, A., Beers, T. C., Christlieb, N., Lee, Y. S., Kennedy, C. R., Rossi, S., Santucci, R.
Metal-poor Stars Observed with the Magellan Telescope. II. Discovery of Four Stars with $[Fe/H] \leq -3.5$
2014, *The Astrophysical Journal*, vol. 781, 40 ([ADS link](#))

7. Lee Y. S., Beers T. C., Masseron T., Plez B., Rockosi, C., Sobek, J., Yanny, B., Lucatello, S., Sivarani, T., **Placco, V. M.**, Carollo D.
Carbon-enhanced Metal-poor Stars in SDSS/SEGUE. I. Carbon Abundance Estimation and CEMP Star Frequency **2013**, *The Astronomical Journal*, vol. 146, 132 ([ADS link](#))
6. **Placco, V. M.**, Frebel A., Beers T. C., Karakas A., Kennedy C. R., Rossi S., Christlieb N., Stancliffe R.
Metal-Poor Stars Observed with the Magellan Telescope I. Constraints on Progenitor Mass and Metallicity of AGB Stars Undergoing s-Process Nucleosynthesis **2013**, *The Astrophysical Journal*, vol. 770, 104 ([ADS link](#))
5. **Placco, V. M.**, Kennedy C.R., Beers T.C., Christlieb N., Rossi S., Sivarani T., Lee Y.S., Reimers D., Wisotzki L.
Searches for Metal-Poor Stars from the Hamburg/ESO Survey using the CH G-band **2011**, *The Astronomical Journal*, vol. 142, 188 ([ADS link](#))
4. Kennedy, C.R., Sivarani, T., Beers, T.C., Lee, Y.S., **Placco, V. M.**, Rossi, S., Christlieb, N., Herwig, F., Plez, B.
[O/Fe] Estimates for Carbon-enhanced Metal-poor Stars from Near-infrared Spectroscopy **2011**, *The Astronomical Journal*, vol. 141, 102 ([ADS link](#))
3. **Placco, V. M.**, Kennedy C.R., Rossi S., Beers T.C., Lee Y.S., Christlieb N., Sivarani T., Reimers D., Wisotzki L.
A Search for Unrecognized Carbon-Enhanced Metal-Poor Stars in the Galaxy **2010**, *The Astronomical Journal*, vol. 139, 1051 ([ADS link](#))
2. Marsteller, B., Beers, T. C., Sivarani, T., Rossi, S., **Placco, V. M.**, Knapp, G. R., Johnson, J. A., Lucatello, S.
Automated Determination of [Fe/H] and [C/Fe] from Low-Resolution Spectroscopy **2009**, *The Astronomical Journal*, vol. 138, 533 ([ADS link](#))
1. Lichtenthäler, R., Lépine-Szily, A., Guimarães, V., Perego, C., **Placco, V. M.**, Camargo, O., Jr., Denke, R., de Faria, P. N., Benjamim, E. A., Added, N., Lima, G. F., Hussein, M. S., Kolata, J., Arazi, A.
Radioactive Ion beams in Brazil (RIBRAS) **2005**, *The European Physical Journal A - Supplement*, vol. 25, 733 ([ADS link](#))

Proceedings, non-refereed publications and abstracts

30. Holmbeck, E, **Placco, V. M.**, Beers, T. C., Frebel, A., Sakari, C., Surman, R. *RAVE J2038-0023: The First Bright r-Process Enhanced Star Identified in the RAVE Survey*, **Proceedings of the 14th Symposium on Nuclei in the Cosmos**, **2017** ([ADS link](#))
29. van Weeren, R. J., Andrade-Santos, F., Dawson, W. A., Golovich, N., Lal, D. V., Kang, H., Ryu, D., Brüggen, M., Ogorean, G. A., Forman, W. R., Jones, C., **Placco, V. M.**, Santucci, R. M., Wittman, D., Jee, M. J., Kraft, R. P., Sobral, D., Stroe, A., Fogarty, K.
Discovery of Electron Re-Acceleration at Galaxy Cluster Shocks, **American Astronomical Society, AAS Meeting #229**, **2017**
28. Yoon, J., Beers, T. C., Dietz, S., Lee, Y. S., **Placco, V. M.** *Kinematics and chemistry of faint high latitude dwarf carbon stars*, **American Astronomical Society, AAS Meeting #229**, **2017**
27. Beers, T. C., **Placco, V. M.**, Holmbeck, E. M., Hansen, T. T., Simon, J. D., Thompson, I., Frebel, A. *Searching for New Highly r-Process-Enhanced Stars in the Halo of the Milky Way*, **American Astronomical Society, AAS Meeting #229**, **2017**
26. Dietz, S. E., Beers, T. C., Carollo, D., Yoon, J., **Placco, V. M.** *Identifying CEMP-s and CEMP-no Stars within Milky Way Halo Structures*, **American Astronomical Society, AAS Meeting #229**, **2017**
25. Lentner, G., Beers, T. C., **Placco, V. M.**, Carollo, D., Whitten, D., Denissenkov, P., Santucci, R., Rossi, S. *Structures in the Milky Way's Halo System using the Age Distribution of Field Horizontal-Branch Stars*, **American Astronomical Society, AAS Meeting #229**, **2017**

24. Rasmussen, K., Beers, T. C., **Placco, V. M.**, Yoon, J. *The First Mass Function and Rise of Carbon in the Early Universe*, **American Astronomical Society, AAS Meeting #229, 2017**
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Telescope time allocations

Approved observing projects: 100

Total awarded: 4084.49 hours

Principal Investigator

Approved observing projects: 36

Total awarded: 1298.55 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: 64

Total awarded: 2785.94 hours

64. 2017A - ESO/NTT - 099.D-0428: 5.0 nights
63. 2017A - LCO/Magellan Telescope - Carnegie Time: 3 nights
62. 2017A - LCO/duPont Telescope - Carnegie Time: 19 nights
61. 2017A - SOAR - 2016A-0016: 40 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-0321: 3.0 nights
38. 2014B - SOAR - 2014B-0321: 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 – queue
10. 2011B - SOAR (SO2011B-008): 24.0 hours
9. 2011A - Gemini South - GS-2011A-Q-85 (Band 3): 63.4 hours – queue
8. 2011A - CFHT - CF2011A-002: 13.9 hours – queue
7. 2010B - CFHT - 10BB05A/10BB99B: 13.9 hours – queue
6. 2010A - Gemini South - GS-2010A-Q-78 (Band 4): 25.0 hours – queue
5. 2009B - SOAR - SO2009B-004: 17.0 hours – remote
4. 2009A - SOAR - SO2009A-0249: 6 nights – remote
3. 2009A - SOAR - SO2009A-014: 32.0 hours – remote
2. 2008A - SOAR - SO2008A-006: 3 nights – remote
1. 2007B - SOAR - SO2007B-006: 3 nights – remote

Press releases, articles, and media resources

2017

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](#)

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[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 Newline (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)

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EurekAlert! (online)

Detailed Age Map Shows How Milky Way Came Together

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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)

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[Relics of the Milky Way's first generation of stars](#)
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- Agência USP de Notícias (in Portuguese - online)
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- Universidade de São Paulo - Notícias (in Portuguese - online)
[Equipe liderada pela USP identifica estrela chave para entender o início da Via Láctea](#)
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[Astrônomos encontram uma estrela quase tão velha quanto o próprio Universo](#)

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JINA-CEE Newsletter (online)

[The First Age Map of the Galactic Halo](#)

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UOL Notícias (in Portuguese - online)

[Mapa permite estimar idade das estrelas da Via Láctea](#)

Astronomy & Astrophysics Highlights (online)

[2MASS J18082002–5104378: The brightest \(\$V=11.9\$ \) ultra metal-poor star](#)

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](#)

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The Watchers (online)

[The first age map of the Milky Way's halo produced](#)

Red Orbit (online)

[First-ever Milky Way age map shows oldest stars clustered in center](#)

Headlines and Global News (online)

[Milky Way Age Map Created For The First Time, Confirming Past Assumptions In Astrophysics](#)

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[Astrophysicists furnish a initial age map of a Halo of a Milky Way](#)

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