

Curriculum Vitæ - Vinicius Moris Placco

last update: July 19, 2017
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Contact information

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Notre Dame, IN 46556 - USA
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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)

Undergraduate level

- 2017 (LI) Physics A - Mechanics Laboratory (FA17-PHYS-11411)
University of Notre Dame
- 2017 (GL) Physics for Life Sciences I (FA17-PHYS-20210)
University of Notre Dame
- 2017 (LI) General Physics B - E & M Laboratory (SP17-PHYS-11422)
Course Instructor Feedback: 4.7/5.0
University of Notre Dame
- 2016 (GL) Descriptive Astronomy (FA16-PHYS-10140)
University of Notre Dame
- 2015 (GL) Modern Observational Techniques (FA15-PHYS-30481)
University of Notre Dame
- 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

Graduate level

- 2017 (GL) Astrophysics: Stars (SP17-PHYS-80202)
University of Notre Dame
- 2016 (CI) Large-Scale Astronomical Surveys (SP16-PHYS-70210)
University of Notre Dame
- 2015 (GL) Astrophysics: Stars (SP15-PHYS-80202)
University of Notre Dame
- 2012 (GL) Observational Astronomy
Universidade 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 Gudin
 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
 2016–present John Roach
 2016–present Cristobal Gonzales
 2015–present Spencer Clark
 2017 Jazmine Jefferson (University of Kansas - REU)
 2017 Derek Shank (Ohio Wesleyan University - REU)
 2017 Diego Fernandez (University of Oregon - REU)
 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

US representative for Gemini Observatory Users Committee
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)
L^AT_EX, Gnuplot, OpenOffice, MS Office. Co-author of the L^AT_EXtemplate [IAGTESE](#)
IRAF/Pyraf/Gemini packages, focused on spectroscopy
Basic IDL/Python/R-project/SQL (PostgreSQL/pgAdmin3)

Invited / Contributed talks

2017

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 1st 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

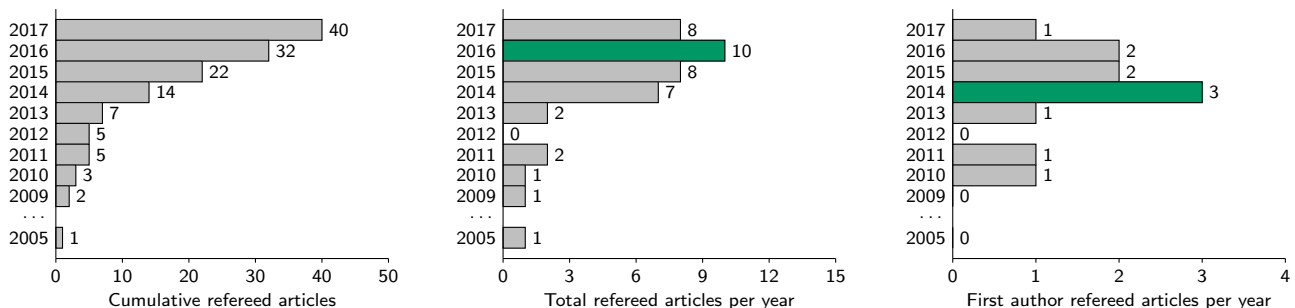
Quantitative Indicators / Online Resources

- ADS: **530 citations** / **h-index = 15** (July 19, 2017- [ADS link](#))
- Google Scholar: **623 citations** / **h-index = 15** (July 19, 2017- [Google Scholar link](#))
- ADS Publication List (complete - [ADS link](#)) / (refereed only - [ADS link](#))
- ResearcherID profile - [ResearcherID](#) / LinkedIn profile - [LinkedIn](#)

Publication list

Refereed articles

Total: 40 publications (11 as first author)



- * [Placco, V. M.](#), Beers, T. C., Cunha, K., Smith, V. V., Hasselquist, S.
Identification CEMP-s Stars from APOGEE H-band Spectra
2017, The Astrophysical Journal, in preparation
 - * Cain, M., Frebel, A., Gull, M., Ji, A. P., [Placco, V. M.](#)
Five new r-I and r-II stars in the halo of the Milky Way
2017, The Astrophysical Journal, in preparation
 - * Gull, M., Frebel, A., Cain, M., Ji, A. P., [Placco, V. M.](#), Abate, C., Karakas, A. I., Casey, A. R., Beers, T. C.
The first metal-poor star with both an s-process and an r-process chemical signature
2017, The Astrophysical Journal, in preparation
40. [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
39. Hasselquist, S., Shetrone, M., Smith, V. V., Holtzman, J., McWilliam, A., Fernández-Trincado, J. G., Beers, T. C., Majewski, S. R., Nidever, D. L., Tang, B., Tissera, P. B., Fernández-Alvar, E. F., Allende-Prieto, C., Battaglia, G., Carigi, L., Cunha, K., Delgado Inglada, G., Frinchaboy, P., García-Hernández, D. A., Geisler, D., Minniti, D., [Placco, V. M.](#), Schultheis, M., Sobeck, J., Villanova, S.
APOGEE Chemical Abundances of the Sagittarius Dwarf Galaxy
2017, The Astrophysical Journal, in press
38. Fernández-Trincado, J. G., Zamora, O., Garcia-Hernandez, D. A., Souto, D., Dell’Agli, F., Schiavon, R. P., Geisler, D., Tang, B., Villanova, S., Hasselquist, S., Mennickent, R. E., Cunha, K., Shetrone, M., Allende-Prieto, C., Vieira, K., Zasowski, G., Sobeck, J., Hayes, C. R., Majewski, S. R., [Placco, V. M.](#), Beers, T. C., Schleicher, D. R. G., Robin, A. C., Meszaros, Sz., Masseron, T., Garcia-Perez, A. E., Anders, F., Meza, A., Alves-Brito, A., Carrera, R., Minniti, D., Lane, R. R., Fernandez-Alvar, E., Moreno, E., Pichardo, B., Perez-Villegas, A., Schultheis, M., Roman-Lopes, A., Fuentes, C. E., Nitschelm, C., Harding, P., Bizyaev, D., Pan, K., Oravetz, D.,

- Simmons, A., Ivans, I. I., Blanco-Cuaresma, S., Hernandez, J., Alonso-Garcia, J., Valenzuela, O., Chaname, J. *Atypical Mg-poor Milky Way field stars with globular cluster second-generation like chemical patterns* **2017**, *The Astrophysical Journal Letters*, 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., Ogrea, G. A., Forman, W. R., Jones, C., **Placco, V. M.**, Santucci, R. M., Wittman, D., Jee, M. J., Kraft, R. P., Sobral, D., Stroe, A., Fogarty, K. *The Case for Electron Re-Acceleration at Galaxy Cluster Shocks* **2017**, *Nature Astronomy*, vol. 1, 5 ([Nature Astronomy link](#) / [Issue cover](#))
32. Carollo, D., Beers, T., **Placco, V. M.**, Santucci, R. M., Denissenkov, P., Tissera, P. B., Lentner, G., Rossi, S., Lee, Y. S., Tumlinson, J. *The age structure of the Milky Way's halo* **2016**, *Nature Physics*, vol. 12, 1170 ([Nature Physics link](#) / [Issue cover](#))
31. **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](#))
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., Sobek, 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](#))
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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](#)

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[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](#)

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Nature Physics (online - issue cover)

[The age structure of the Milky Way's halo](#)

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[Second-generation stars identified, giving clues about their predecessors](#)

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[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](#)

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[How the Milky Way formed: Stunning 3D maps show how 130,000 stars came together 13.5 billion years ago](#)

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[Graphic shows age structure of the Milky Way's halo](#)

Astrobites (online)

[Our halo is getting younger, spatially speaking](#)

UPI (online)

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International Business Times (online)

[How Did The Milky Way Form? New Chronographic Map Provides Answers](#)

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[Detailed age map shows how Milky Way came together](#)

Reddit Journal of Science (online)

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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)

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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

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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

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[Astrônomos encontram uma estrela quase tão velha quanto o próprio Universo](#)

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National Science Foundation - News from the Field (online)

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The Watchers (online)

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

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Phys.org (online)

[Galactic archaeologists uncover new insights into the formation of the earliest stars and galaxies](#)