Curriculum Vitæ - Vinicius Moris Placco

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Contact information

Full name	Vinicius Moris Placco
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Website	http://www.nd.edu/~vplacco
e-mail	vplacco@nd.edu / vmplacco@gmail.com

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

Current

2017–2019 Hubble Space Telescope (Co-I)
The Unexplored Domains of the s-Process
Space Telescope Science Institute
Value: $119,501 (4.5 months of salary support - funding likely to start with observations in the fall 2017)

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
Value: $85,293 (3 months of salary support - 2015/2016/2017)

Past

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

Future Submissions

2017 NSF - Division of Astronomical Sciences (Deadline for submission: November 15, 2017)
Searching for the Origins of the Chemical Elements from a 12-Color Map of the Night Sky
Budget: 2-3 years of salary support

2018 Templeton Foundation - Small Grants (Deadline for submission: August 31, 2018)
Observational Constraints on the Origins of Life
Budget: 1-2 years of salary support

Short term visits

2014 University of Notre Dame
Department of Physics
Funding: Gemini Observatory and JINA (Joint Institute for Nuclear Asthophysics)

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 (CI) Descriptive Astronomy (FA17-PHYS-10140)
University of Notre Dame
2017 (LI) General Physics B - E & M Laboratory (SP17-PHYS-11422)
Course Instructor Feedback: 4.7/5.0 - link to full report
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 (CI) 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 supervision

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

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

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 the 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)
LaTeX, Gnuplot, OpenOffice, MS Office. Co-author of the LaTeXtemplate IAGTESE
IRAF/Pyraf/Gemini packages, focused on spectroscopy
Basic IDL/Python/R-project/SQL (PostgreSQL/pgAdmin3)

Invited / Contributed talks

2017

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 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 Hierarquical 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

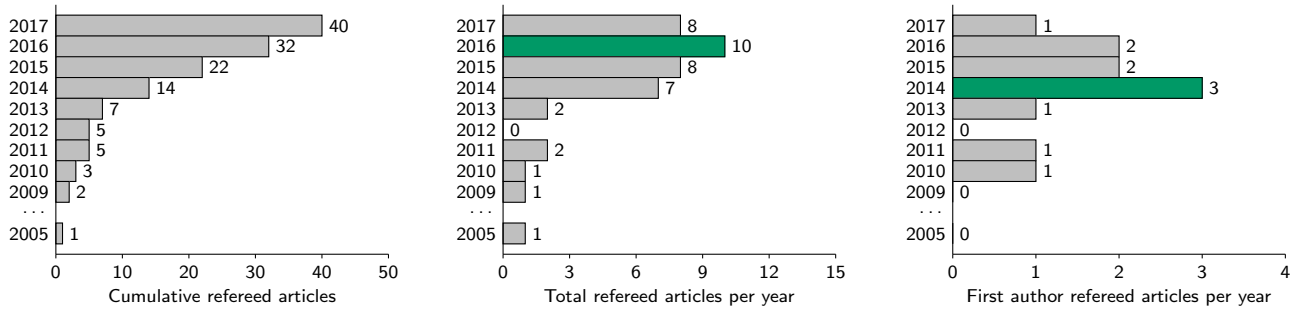
Quantitative Indicators / Online Resources

- ADS: **566 citations / h-index = 15** (September 19, 2017- ADS link)
- Google Scholar: **653 citations / h-index = 15** (September 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

⋆ Sakari, C. M., Wallerstein, G., Beers, T. C., **Placco, V. M.**, Davis, C. E., Venn, K. A.
Atmospheric Parameters, Metallicities, and Light-element Abundances of a Large Sample of Metal-Poor Stars
2017, **Monthly Notices of the Royal Astronomical Society**, in preparation

⋆ Whitten, D. D., **Placco, V. M.**, Beers, T. C., Ederoclite, A., Mendes de Oliveira, C.
Identification of Low Metallicity Stars with J-PLUS Using Artificial Neural Networks
2017, **Astronomy & Astrophysics**, 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. 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

39. 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**, vol. 471, 404 (ADS link)

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**, vol. 846, 2 (ADS link)

37. Hasselquist, S., Shetrone, M., Smith, V. V., Holtzman, J., McWilliam, A., Fernández-Trincado, J. G., Beers, T. C., Majewski, S. R., Nidever, D. L., Tang, B., Tissera, P. B., Fernández-Alvar, E. F., Allende-Prieto, C., Battaglia, G., Carigi, L., Cunha, K., Delgado Inglada, G., Frinchaboy, P., García-Hernández, D. A., Geisler, D., Minniti, D., **Placco, V. M.**, Schultheis, M., Sobeck, J., Villanova, S.
APOGEE Chemical Abundances of the Sagittarius Dwarf Galaxy
2017, **The Astrophysical Journal**, vol. 845, 162 (ADS link)

36. **Placco, V. M.**, Holmbeck, E. M., Frebel, A., Beers, T. C., Surman, R. A., Ji, A. P., Ezzedine, R., Points, S. D., Kaleida, C. C., Hansen, T. T., Sakari, C. M., Casey, A. R.
RAVE J203843.2−002333: The First Highly R-process-enhanced Star Identified in the RAVE Survey.
2017, **The Astrophysical Journal**, vol. 844, 18 (ADS link)

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., Brüggen, 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)

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., 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]≤ -3.5
2014, **The Astrophysical Journal**, vol. 781, 40 (ADS link)

7. Lee Y. S., Beers T. C., Masseron T., Plez B., Rockosi, C., Sobeck, J., Yanny, B., Lucatello, S., Sivarani, T., **Placco, V. M.**, Carollo D.
Carbon-enhanced Metal-poor Stars in SDSS/SEGUE. I. Carbon Abundance Estimation and CEMP Star Frequency
2013, **The Astronomical Journal**, vol. 146, 132 (ADS 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)

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Telescope time allocations

Approved observing projects: 108
Total awarded: 4701.88 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: 72
Total awarded: 3403.33 hours

72. 2017B - Gemini North - GN-2017B-Q-75 (Band 3): 41.82 hours
71. 2017B - Gemini North - GN-2017B-Q-79 (Band 4): 63.64 hours
70. 2017B - Gemini South - GS-2017B-Q-75 (Band 3): 20.91 hours
69. 2017B - Gemini South - GS-2017B-Q-84 (Band 4): 107.82 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 - 2016A-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-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

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

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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)
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)
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