Curriculum Vitæ - Vinicius Moris Placco

last update: June 18, 2020
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Contents

Personal information

Full name	Vinicius Moris Placco
Nationality	Brazilian and Italian; US permanent resident
Languages	Portuguese (native), English (fluent), Spanish (intermediate), Italian (basic)
Address	5621 Town Center Drive, ap 13 Granger, IN 46530 - USA
Phone	+1 (520) 468-8215
Website	http://vmplacco.github.io/
e-mail	vmplacco@gmail.com

Employment / Appointments

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

2018– Faculty Fellow
Liu Institute for Asia and Asian Studies
University of Notre Dame

2014–2015 Science Fellow
Gemini Observatory – Northern Operations Center
Association of Universities for Research in Astronomy

2013–2014 Postdoctoral Fellow
National Optical Astronomy Observatory
Association of Universities for Research in Astronomy

2010–2013 Postdoctoral Fellow
Instituto de Astronomia, Geofísica e Ciências Atmosféricas
Universidade de São Paulo

Education

2007–2010 Doctorate degree in Astronomy
Search for very metal-poor stars based on carbon over-abundance
Instituto de Astronomia, Geofísica e Ciências Atmosféricas
Universidade de São Paulo

2005–2007 Master's degree in Astronomy
Abundance patterns among very metal-poor stars in the Galaxy: a statistical approach
Instituto de Astronomia, Geofísica e Ciências Atmosféricas
Universidade de São Paulo

2001–2005 Bachelor's degree in Physics (concentration: Astronomy)
Instituto de Física
Universidade de São Paulo

Awards

2011 *Featured Astronomy thesis of the year 2010*
Instituto de Astronomia, Geofísica e Ciências Atmosféricas
Universidade de São Paulo

2005 *Best Astronomy undergraduate project*
Instituto de Astronomia, Geofísica e Ciências Atmosféricas
Universidade de São Paulo

Observatory Experience

Leardership roles/Service

2018–present Member of the J-PAS Survey Science Committee (Javalambre Physics of the Accelerating Universe Survey)
2017–present Member of the S-PLUS Advisory Committee (Southern Photometric Local Universe Survey)
2017–present Principal Investigator of the S-PLUS Short Survey

2020–present Hubble Space Telescope External Proposal reviewer
2019–present Member of the NSF's OIR Lab Time Allocation Committee - Galactic Panel 2
2018–present Member of the J-PAS Survey Data Validation group
2017–present US representative for the Gemini Observatory Users Committee
2017–present Subaru Telescope Proposal reviewer – category group: Normal Stars, Metal-Poor Stars

2018–present Co-coordinator of the Resolved Stellar Population Working Group of the J-PAS Survey
2018–present Member of the US Extremely Large Telescope Program – First Stars Key Science Project
2018–present Member of the Maunakea Spectroscopic Explorer (MSE) Science Team
2017–present Co-coordinator of the Stellar Parameters Value-Added Catalog Group of the J-PLUS Survey
2018–2019 Member of the NOAO Time Allocation Committee - Galactic Panel 2
2017–2018 Member of the Gemini OCS Upgrades Working Group

Operations and Instrument/User Support

2014–2015 **Gemini-North**: Operations
Support Scientist for Phase II programs
Backup support for instrument teams
Interface between observatory and visitors (staff, scientists, and others)
Interactions with astronomers, engineers, IT personnel, and facilities staff
Community support (help-desk and troubleshooting)
Write/edit/update internal and external webpages
Weekly operations meetings
Queue observer
Data reductions

2014–2015 **Gemini-North**: GMOS Instrument Team
Instrument performance monitoring pipeline
Throughput characterization
Commissioning of AO capabilities
Write/edit/update internal and external instrument webpages
Data quality assessment
Commissioning of Hamamatsu CCD at GMOS-S

2014–2015 **Gemini-North**: GRACES Instrument Team
Commissioning of the instrument
Developed early data-reduction pipeline
Write/edit/update internal and external instrument webpages
Developed exposure time calculator (GRACES ITC v0.1 Beta)

2008–2012 **SOAR Telescope**: remote observing station – University of São Paulo
Responsible for operations and maintenance
Develop data reduction tools
Edit/write manuals and data analysis cookbooks
User support and troubleshooting
Configure, quote, and purchase new workstations and teleconference hardware
Work with university staff and IT personel to ensure physical access to buildings and computers
Support daytime calibrations / nighttime observations

Observing Experience

Period	Telescope	# of nights	instrument	mode
2019–present	CTIO/Blanco	5	COSMOS	remote
2011–present	ESO/NTT	12	EFOSC2	visitor
2008–present	SOAR	40+	Goodman OSIRIS	remote
2013–2018	KPNO/Mayall	20+	RCSPEC KOSMOS	visitor/remote
2014–2015	Gemini North	12	GMOS GRACES GNIRS NIRI NIFS	queue observer
2014–2015	Gemini South	2	GMOS	remote
2013	McDonald 2.1m	4	ES2 Spectrometer	visitor

Research Experience

Funding

Current

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

2019–2021 Hubble Space Telescope (Co-PI)
HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-process event
Space Telescope Science Institute (USD 60,732)

2020–2022 Hubble Space Telescope (Co-I)
Testing r-process nucleosynthesis models with two r-process enhanced stars
Space Telescope Science Institute (USD 35,000)

Pending

2020–2023 Hubble Space Telescope (PI)
Observing Proposal for Cycle 28
Space Telescope Science Institute (Budget TBD)

2020–2023 NSF - Division of Astronomical Sciences (PI)
Astronomy and Astrophysics Research Grant
National Science Foundation (USD 320,618)

Past (Total: USD 255,393)

2018 Liu Institute for Asia & Asian Studies (PI)
Stellar Archaeology as a Time Machine to the First Stars
University of Notre Dame (USD 600 - Travel support for conference)

2018 Liu Institute for Asia & Asian Studies (PI)
TDLI Workshop on The Exploding Universe
University of Notre Dame (USD 2,600 - Travel support for conference)

2015–2017 Hubble Space Telescope (Co-I)
The First Detections of Phosphorus, Sulphur, and Zinc in a Bona-Fide Second-Generation Star
Space Telescope Science Institute (USD 85,293)

2016–2017 Faculty Research Support Program Initiation Grant (PI)
Identification of CEMP Stars from S-PLUS Photometry using Artificial Neural Networks
University of Notre Dame (USD 10,000)

2013–2014 FAPESP (State of São Paulo Research Foundation) – Postdoctorate
(re)discovery and analysis of metal-poor stars in the Milky Way
National Optical Astronomy Observatory (USD 71,400)

2010–2013 FAPESP (State of São Paulo Research Foundation) – Postdoctorate
The Milky Way Halo revisited
Universidade de São Paulo (USD 85,500)

Fellowships

2007–2010 Doctorate – FAPESP (07/04356-3) – Universidade de São Paulo
Search for very metal-poor stars based on carbon over-abundance

2005–2007 Master's – FAPESP (05/01023-8) – Universidade de São Paulo
Abundance patterns among very metal-poor stars in the Galaxy: a statistical approach

2004–2005 Undergraduate research project – CNPq/PIBIC – Universidade de São Paulo
Descoberta e Análise de Objetos com Linhas em Emissão no Survey HK

2002–2004 Undergraduate research project – FAPESP (02/04704-8) – Universidade de São Paulo
Construção de câmara de alvo gasoso para produção de feixes radioativos

Visiting Faculty/Postdoc/Graduate Student

2018 Universidade de São Paulo
Instituto de Astronomia, Geofísica e Ciências Atmosféricas
Funding: USP/FAPESP/JINA-CEE

2018 Chungnam National University
Department of Astronomy & Space Science
Funding: CNU

2014 University of Notre Dame
Department of Physics
Funding: Gemini Observatory and JINA (Joint Institute for Nuclear 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
Kitt Peak National Observatory
Funding: FAPESP (Brazil)

2013 New Mexico State University
Department of Astronomy
Funding: FAPESP (Brazil)

2010/2008 Universität Heidelberg
Zentrum für Astronomie
Funding: Universität Heidelberg (Germany), FAPESP, PROEX (Brazil)

2010/2009 Michigan State University
2007 Physics and Astronomy Department
Funding: JINA (USA), FAPESP, PROEX (Brazil)

Academic Experience

Teaching

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

Undergraduate

University of Notre Dame

2020	(LI)	Descriptive Astronomy (SP20-PHYS-10140)
		Course Instructor Feedback: 5.0/5.0 - link to full report
	(LI)	General Physics B - E & M Laboratory (SP20-PHYS-11422)
		Course Instructor Feedback: 5.0/5.0 - link to full report
	(GL)	Engineering Physics II Laboratory (SP20-PHYS-11320)
	(GL)	Engineering Physics I Laboratory (SP20-PHYS-11310)
2019	(LI)	Physics A - Mechanics Laboratory (FA19-PHYS-11411)
		Course Instructor Feedback: 5.0/5.0 - link to full report
	(LI)	Descriptive Astronomy (SU19-PHYS-10140)
		Course Instructor Feedback: 5.0/5.0 - link to full report
2018	(GL)	Descriptive Astronomy (FA18-PHYS-10140)
2017	(CI)	Descriptive Astronomy (FA17-PHYS-10140)
	(LI)	General Physics B - E & M Laboratory (SP17-PHYS-11422)
		Course Instructor Feedback: 4.8/5.0 - link to full report
2016	(GL)	Descriptive Astronomy (FA16-PHYS-10140)
2015	(GL)	Modern Observational Techniques (FA15-PHYS-30481)

Universidade Virtual do Estado de São Paulo

2012	(LI)	Sky and Stars: An introduction
	(LI)	Galaxies: An introduction
2011	(LI)	Sky and Stars: An introduction
	(LI)	Galaxies: An introduction

Graduate

University of Notre Dame

2017	(CI)	Astrophysics: Stars (SP17-PHYS-80202)
2016	(CI)	Large-Scale Astronomical Surveys (SP16-PHYS-70210)
2015	(GL)	Astrophysics: Stars (SP15-PHYS-80202)

Universidade de São Paulo

2012	(GL)	Observational Astronomy

Teaching Assistant - Universidade de São Paulo

2009	Introduction to Astronomy
	Fundamental Astronomy
2008	Introduction to Astronomy
2007	Fundamental Astronomy

Student/Postdoc supervision

Postdoctoral level

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

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

2020–present Guilherme Limberg (Universidade de São Paulo)
2019–present Carlos Andrés Galarza Arevalo (Observatório Nacional - Brazil)
2019–present Joseph Zepeda
2019–present Derek Shank
2015–present Devin Whitten
2015–present Sarah Dietz
2015–present Dmitrii Gudin
2015–2020 Erika Holmbeck
2015–2020 Kaitlin Rasmussen
2015–2017 Geoffrey Lentner
2010–2016 Rafael Santucci (M.Sc. and Ph.D. - Universidade de São Paulo)

Undergraduate Level (advisor) - University of Notre Dame

2020–present Dante Komater (Physics Major)
2019–present Lucas Pinheiro (Engineering Major)
2019 Shenghua Liu (Physics Major)
2019 Winter Allen (Arkansas Tech University - REU)
2019 Yihao Zhou (Shanghai Jiao Tong University - REU)
2018–2020 Guilherme Limberg (Universidade de São Paulo)
2016–2018 Erik Peterson
2016–2018 David Kalamarides
2015–2018 Spencer Clark (Glynn Family Honors Program) - Senior Thesis
2016–2017 John Roach
2016–2017 Cristobal Gonzales
2016–2017 Michael Kurkowski
2017 Jazmine Jefferson (University of Kansas - REU)
2017 Derek Shank (Ohio Wesleyan University - DISC/REU) - video report
2017 Diego Fernandez (University of Oregon - REU)
2016 Travis Hodges (Austin Peay State University - DISC/REU)
2016 Miguel Correa (San Diego State University - REU)
2015 Siyu He (Xi'an Jiaotong University - REU)
2012–2014 William Alves (Universidade de São Paulo)
2008–2010 Rafael Santucci (Universidade de São Paulo)

Committee Service - University of Norte Dame

2019–present Undergraduate Research, Department of Physics
2016–2018 Graduate Recruitment, Department of Physics
2015–2018 Preliminary Exam Committee, Department of Physics
2015–2018 University Committee on Research & Sponsored Programs, Notre Dame Research

Thesis Defense Committee

2019 Heitor Ernandes (Ph.D. - committee chair)
Universidade de São Paulo
2019 Henrique Reggiani (Ph.D.)
Universidade de São Paulo
2016 Rafael Miloni Santucci (Ph.D.)
Universidade de São Paulo
2016 Camilo Francisco Javier Muñoz Peña (M.Sc.)
Universidade de São Paulo

Other relevant information

Computing skills

Linux/Unix/MACOSX/Windows operating systems
Shell Scripting (sh, bash, tcsh, zsh)
LaTeX, OpenOffice, MS Office. Co-author of the LaTeXtemplate IAGTESE
Python (iPython/Jupyter Notebooks): scipy, numpy, pandas, scikitlearn, pyfits, astropy
R-project (terminal/RStudio): FITSio, tidyverse, cluster, sciviews
Databases: SQL (PostgreSQL/pgAdmin3), SDSS CasJobs, ADQL (J-PLUS/J-PAS/TAPVizieR)
Web: html, ccs, wordpress, apache, curl, wget, ssh, ftp
Graphics: Gnuplot, ggplot2, matplotlib, bokeh, tableau
Data reduction: IRAF/Pyraf/Gemini packages, focused on spectroscopy
Astronomy tools: WCSTools, CDSclient, STILTS, SkyCalc
Version control: Git

Online Resources

Webpage:	http://vmplacco.github.io/
LinkedIn:	https://www.linkedin.com/in/vinicius-placco/
GitHub:	https://github.com/vmplacco/
stackoverflow:	https://stackoverflow.com/users/5964833/vinicius-placco
pythonanywhere:	https://vplacco.pythonanywhere.com/
Sample webpages/ side projects:	http://vmplacco.github.io/#resources

Professional Affiliations/Service

Member of the American Astronomical Society
Member of the Brazilian Astronomical Society
Member of the Brazilian Physical Society
Member of the JINA Center for the Evolution of the Elements

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

* Invited / Contributed talks

2020

* NSF's National Optical-Infrared Astronomy Research Laboratory
Near-Field Cosmology with Narrow-Band Photometry and Spectroscopy of Low-Metallicity Stars

* Universidade de São Paulo – Astrophysics Colloquium
Near-Field Cosmology using Narrow-Band Photometry and Low-Metallicity Stars

* Universidade de São Paulo – Astronomia ao Meio-dia
Agulhas no palheiro: A evolução química e idade do Universo contadas por duas estrelas

2019

* National Optical Astronomy Observatory
Stellar Archaeology: Understanding the Chemical Evolution of the Universe through Color Maps of the Night Sky

* Joint Institute for Nuclear Astrophysics – Physics of Atomic Nuclei High School Program
The Age and Chemical Evolution of the Universe from two stars in the Milky Way

  Consejo Superior de Investigaciones Científicas – 17th J-PAS Collaboration Meeting
Identification of Low-Metallicity Stars from Narrow-Band Photometry

* San Francisco State University – Physics & Astronomy Colloquium
Stellar Archaeology: Origin of the Chemical Elements in the Universe through a 59-Color Map of the Sky

2018

* Kavli IPMU at The University of Tokyo – Stellar Archaeology as a Time Machine to the First Stars
The Mass Distribution of the First Stars revealed by Abundance Pattern Matching of Ultra Metal-Poor Stars

  Kavli IPMU at The University of Tokyo – Introduction to Stellar Archaeology
Radioactive Stellar Ages

* Texas A&M University Commerce – Physics & Astronomy Colloquium
Stellar Archaeology: Understanding the Origin of the Chemical Elements through a 59-Color Map of the Night Sky

* Chungnam National University – Department of Astronomy & Space Science Seminar
The Origin of the Chemical Elements in the Universe revealed by a 12-Color Map of the Night Sky

* Korea Astronomy and Space Science Institute Colloquium
Constraints on Near-Field Cosmology through Abundance Pattern Matching of Ultra Metal-Poor Stars

* Universidade de São Paulo – Astronomy Colloquium
The Southern Photometric Local Universe Survey (S-PLUS): An Overview

  Universidade de São Paulo – S-PLUS Meeting
Short update on S-PLUS SHORTS

  University of Notre Dame – Astronomy 1-minute talks (23 presenters)
Organizer

* University of Notre Dame – Our Universe Revealed
A day in the life of an Astronomer

  Kavli Institute for Cosmological Physics – Near-Field Cosmology with the Dark Energy Survey
The Age Structure of the Milky Way Halo revealed by DES

* Joint Institute for Nuclear Astrophysics – Physics of Atomic Nuclei High School Program
Can we talk about the Age and Chemical Evolution of the Universe by looking at only two stars?

  Centro de Estudios de Física del Cosmos de Aragón – J-PLUS 2nd Virtual Meeting
J-PLUS Stellar Parameter Value Added Catalog

* Shanghai Jiao Tong University – Tsung-Dao Lee Institute Workshop on The Exploding Universe
Probing the mass distribution of the first stars through abundance pattern matching of ultra metal-poor stars

* JINA-CEE Frontiers in Nuclear Astrophysics – Main Conference
Observational constraints on the origin of the elements: from First stars to Neutron-Star mergers

* Manhattan College – Physics Department
Understanding the Origin of the Elements in the Universe through a 12-Color Map of the Night Sky

* JINA-CEE Frontiers in Nuclear Astrophysics – Junior Workshop
Speaking Skills

* Centro de Estudios de Física del Cosmos de Aragón – 16th J-PAS Collaboration Meeting - Pathfinder science
Constraints on First-Star Nucleosynthesis from J-PAS Photometry of Low-Metallicity Stars

Universidade de São Paulo – S-PLUS Collaboration Meeting (online)
Updates on S-PLUS Short Survey(s)

2017

Universidade de São Paulo – S-PLUS Collaboration Meeting (online)
Updates on S-PLUS Short Survey(s)

* Michiana Astronomical Society – MAS monthly meeting speaker
A Tale of Two Stars: Revealing the Age and Chemical Evolution of the Universe

University of Notre Dame – Astro-Skills Lunch
The do's and don'ts when plotting data

Red de Infraestructuras de Astronomia – Early Data Release and Scientific Exploitation of the J-PLUS Survey
Identification of (Bright) Carbon-Enhanced Metal-Poor Stars with J-PLUS Photometry

GMT Community Science Meeting – Chemical Evolution of the Universe
A Monte Carlo approach to find the Progenitors of Ultra Metal-Poor Stars (Rapid Poster Talk)

University of Notre Dame – The Great American Eclipse at Notre Dame
Co-organizer / Astronomy faculty representative – 3,500 attendees

* University of Notre Dame – Research Experiences for Undergraduates (REU) Program
A needle in a haystack: What one star can tell us about the age and chemical evolution of the entire Universe

Centro de Estudios de Física del Cosmos de Aragón – J-PLUS 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

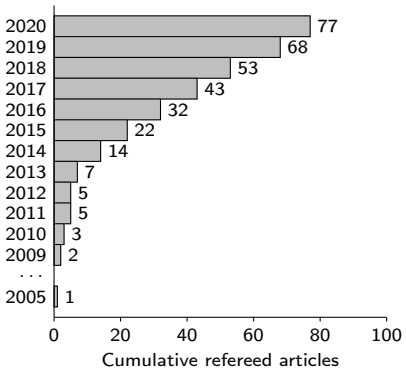
Quantitative Indicators

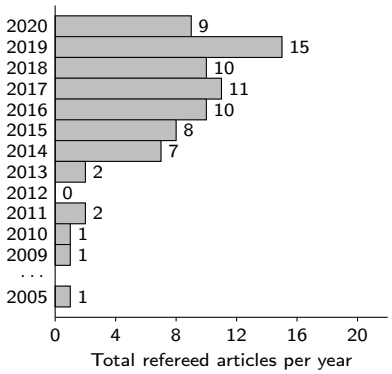
- ADS: **3400 citations / h-index = 26 / i10-index = 55** (June 18, 2020 - ADS link)
- Google Scholar: **3759 citations / h-index = 29 / i10-index = 54** (June 18, 2020 - Google Scholar link)
- ADS Publication List (complete - ADS link) / (refereed only - ADS link)
- ORCID iD - 0000-0003-4479-1265 / ResearcherID - C-6864-2015

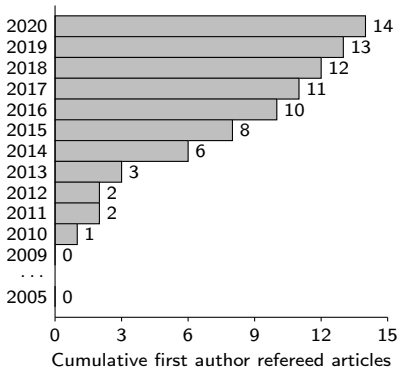
Publication list

Refereed articles

Total: 77 publications (14 first author, 8 second author, 10 third author)







⋆ **Placco, V. M.**, J-PLUS Collaboration, S-PLUS Collaboration
Finding Metal-Poor Stars from Narrow-Band Photometry: Spectroscopic Validation using Gemini Poor-Weather
2020, **The Astrophysical Journal**, in preparation

77. Rasmussen, K., Zepeda, J., Beers, T. C., **Placco, V. M.**, Depagne, É., Frebel, A., Dietz, S., Hartwig, T.
Metal-Poor Stars Observed with the Southern African Large Telescope
2020, **The Astrophysical Journal**, submitted

76. **Placco, V. M.**, Santucci, R. M., Yuan, Z., Mardini, M. K., Holmbeck, E. M., Wang, X., Surman, R., Hansen, T., Roederer, I. U., Beers, T., Choplin, A., Ji, A., Ezzeddine, R., Frebel, A., Sakari, C., Whitten, D., Zepeda, J.
The R*-Process Alliance: The Peculiar Chemical Abundance Pattern of RAVE J183013.5−455510*
2020, **The Astrophysical Journal**, in press

75. Cain, M., Frebel, A., Ji, A. P., **Placco, V. M.**, Ezzeddine, R., Roederer, I. U., Hattori, K., Beers, T. C., Meléndez, J., Hansen, T. T., Sakari, C.
The R*-Process Alliance: J1521−3538, a Very Metal-Poor, Extremely r-Process-Enhanced Star with [Eu/Fe] = +2.2, and the Class of r-III Stars*
2020, **The Astrophysical Journal**, in press

74. Holmbeck, E. M., Hansen, T. T., Beers, T. C., **Placco, V. M.**, Whitten, D. D., Rasmussen, K. C., Roederer, I. U., Sakari, C., Ezzeddine, R., Frebel, A., Drout, M. R., Simon, J. D., Thompson, I. B., Bland-Hawthorn, J., Gibson, B. K., Grebel, E. K., Kordopatis, G., Kunder, A., Meléndez, J., Navarro, J. F., Reid, W. A., Seabroke, G., Steinmetz, M., Watson, F., Wyse, R. F. G.
The R*-Process Alliance: Fourth Data Release from the Search for* r*-Process-Enhanced Stars in the Galactic Halo*
2020, **The Astrophysical Journal**, in press

73. Ezzeddine, R., Rasmussen, K., Frebel, A., Chiti, A., Hinojisa, K., **Placco, V. M.**, Beers, T. C., Hansen, T. T., Roederer, I. U., Sakari, C. M., Ji, A. P., Melendez, J.

The R-Process Alliance: First Magellan/MIKE Release from the Southern Search for R-Process-enhanced Stars
2020, **The Astrophysical Journal**, in press

72. Molino, A., Costa-Duarte, M. V., Sampedro, L., Herpich, F. R., Sodré, L., Jr., Mendes de Oliveira, C., Schoenell, W., Barbosa, C. E., Queiroz, C., Lima, E. V. R., Azanha, L., Muñoz-Elgueta, N., Ribeiro, T., Kanaan, A., Hernandez-Jimenez, J. A., Cortesi, A., Akras, S., Lopes de Oliveira, R., Torres-Flores, S., Lima-Dias, C., Nilo Castellon, J. L., Damke, G., Alvarez-Candal, A., Jiménez-Teja, Y., Coelho, P., Pereira, E., Montero-Dorta, A. D., Benítez, N., Gonçalves, T. S., Santana-Silva, L., Werner, S. V., Almeida, L. A., Lopes, P. A. A., Chies-Santos, A. L., Telles, E., de Souza, T. C. R., Gonçalves, D. R., de Souza, R. S., Makler, M., **Placco, V. M.**, Nakazono, L. M. I., Saito, R. K., Overzier, R. A., Abramo, L. R.
Assessing the photometric redshift precision of the S-PLUS survey: the Stripe-82 as a test-case
2020, **Monthly Notices of the Royal Astronomical Society**, in press

71. Dietz, S. E., Yoon, J., Beers, T. C., **Placco, V. M.**
The Metallicity Gradient and Complex Formation History of the Outermost Halo of the Milky Way
2020, **The Astrophysical Journal**, vol. 894, 34 (ADS link | download pdf)

70. Yoon, J., Whitten, D. D., Beers, T. C., Lee, Y. S., Masseron, T., **Placco, V. M.**
Identification of a Group III CEMP-no Star in the Dwarf Spheroidal Galaxy Canes Venatici I
2020, **The Astrophysical Journal**, vol. 894, 7 (ADS link | download pdf)

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Telescope time allocations

Approved observing projects: 139
Total awarded: 6082.36 hours

Principal Investigator

Approved observing projects: 44
Total awarded: 1555.55 hours

44. 2020A - CTIO Blanco - 2020A-0032: 5.0 nights
43. 2019B - CTIO Blanco - 2019B-0069: 5.0 nights
42. 2019A - Gemini South - GS-2019A-Q-408 (Band 4): 21.0 hours
41. 2019A - Gemini North - GN-2019A-Q-402 (Band 4): 27.0 hours
40. 2018B - Gemini North - GN-2018B-Q-403 (Band 4): 20.0 hours
39. 2018B - Gemini South - GS-2018B-Q-402 (Band 4): 20.0 hours
38. 2018A - Gemini South - GS-2018A-Q-402 (Band 4): 30.0 hours
37. 2017B - Gemini North - GN-2017B-Q-84 (Band 4): 39.0 hours
36. 2017A - Gemini South - GS-2017A-FT-3: 5.5 hours
35. 2017A - KPNO Mayall - 2017A-0295: 7.0 nights
34. 2016B - Gemini North - GN-2016B-Q-85 (Band 4): 50.0 hours
33. 2016B - Gemini South - GS-2016B-Q-86 (Band 4): 50.0 hours
32. 2016A - Gemini South - GS-2016A-Q-107 (Band 4): 50.0 hours
31. 2015B - Gemini North - GN-2015B-Q-100 (Band 4): 30.0 hours
30. 2015B - Gemini South - GS-2015B-Q-104 (Band 4): 50.0 hours
29. 2015B - ESO/NTT - 096.D-0018(A): 5.0 nights
28. 2015A - Gemini North - GN-2015A-Q-401 (Band 4): 30.0 hours
27. 2015A - Gemini South - GS-2015A-Q-205 (Band 4): 50.0 hours
26. 2015A - ESO/NTT - 095.D-0202(A): 4.0 nights
25. 2015A - KPNO Mayall - 2015A-0071: 6.0 nights
24. 2015A - SOAR - 2015A-0071: 5.0 nights
23. 2014B - Gemini South - GS-2014B-Q-85 (Band 4): 30.0 hours
22. 2014B - Gemini North - GN-2014B-Q-102 (Band 4): 30.0 hours
21. 2014A - Gemini South - GS-2014A-Q-92 (Band 4): 33.3 hours
20. 2014A - Gemini North - GN-2014A-Q-101 (Band 3): 16.7 hours
19. 2014A - Gemini North - GN-2014A-Q-105 (Band 4): 33.3 hours
18. 2013B - Gemini South - GS-2013B-Q-89 (Band 4): 25.0 hours
17. 2013B - Gemini North - GN-2013B-Q-105 (Band 4): 25.0 hours
16. 2013B - SOAR - SO2013B-001: 30.0 hours
15. 2013A - SOAR - SO2013A-018: 34.0 hours
14. 2012B - Gemini South - GS-2012B-Q-65 (Band 3): 10.0 hours – queue
13. 2012B - Gemini South - GS-2012B-Q-84 (Band 4): 70.0 hours – queue
12. 2012B - Gemini North - GN-2012B-Q-284 (Band 4): 70.0 hours – queue

11. 2012B - ESO/NTT - 090.D-0275(A): 4 nights – classical
10. 2012B - SOAR - SO2012B-001: 24.0 hours – remote
9. 2012A - Gemini South - GS-2012A-Q-76 (Band 3): 6.0 hours – queue
8. 2012A - ESO/NTT - 089.D-0331(A): 4 nights – classical
7. 2012A - SOAR - SO2012A-003: 24.0 hours – remote
6. 2011B - ESO/NTT - 088.D-0344(A): 4 nights – classical
5. 2011B - SOAR - SO2011B-002: 24.0 hours – remote
4. 2011A - Gemini South - GS-2011A-Q-86 (Band 4): 4.0 hours – queue
3. 2011A - Gemini North - GN-2011A-Q-88 (Band 3): 1.3 hours – queue
2. 2011A - Gemini North - GN-2011A-Q-122 (Band 4): 6.7 hours – queue
1. 2011A - SOAR - SO2011A-010: 17.0 hours – remote

Co-Investigator

Approved observing projects: 95
Total awarded: 4526.81 hours

95. 2020A - McDonald 2.7m - McD20-1-2.7-7: 7.0 nights
94. 2019B - Gemini North - GN-2019B-Q-403 (Band 4): 9.40 hours
93. 2019B - McDonald 2.7m - McD19-3-2.7-1: 7.0 nights
92. 2019B - SOAR - 2019B-0013: 26 hours
91. 2019A - Gemini North - GN-2019A-Q-309 (Band 3): 22.73 hours
90. 2019A - McDonald 2.7m - McD19-1-2.7-3: 17.0 nights
89. 2019A - McDonald 2.1m - McD19-1-2.7-1: 5.0 nights
88. 2018B - Gemini North - GN-2018B-Q-122 (Band 1): 10.0 hours
87. 2018B - Gemini North - GN-2018B-Q-316 (Band 3): 25.00 hours
86. 2018B - Gemini South - GS-2018B-Q-315 (Band 3): 47.27 hours
85. 2018B - SOAR - 2018B-0010: 26 hours
84. 2018A - Gemini North - GN-2018A-Q-403 (Band 4): 89.10 hours
83. 2018A - Gemini South - GS-2018A-Q-406 (Band 4): 7.90 hours
82. 2018A - LCO/Magellan Telescope - Carnegie Time: 2 nights
81. 2018A - LCO/duPont Telescope - Carnegie Time: 18 nights
80. 2018A - Apache Point Observatory - UW08: 5.0 nights
79. 2018A - LCO/Magellan Telescope - Chilean Time: 3 nights
78. 2018A - SOAR - 2018A-0021: 36 hours
77. 2018A - McDonald 2.7m - McD18-1-2.7-3: 7.0 nights
76. 2017B - LCO/Magellan Telescope - Michigan Time: 2.5 nights
75. 2017B - Gemini North - GN-2017B-Q-18 (Band 1): 10.2 hours
74. 2017B - Gemini North - GN-2017B-FT-7: 6.28 hours
73. 2017B - Gemini North - GN-2017B-Q-75 (Band 3): 41.82 hours
72. 2017B - Gemini North - GN-2017B-Q-79 (Band 4): 63.64 hours
71. 2017B - Gemini South - GS-2017B-Q-75 (Band 3): 20.91 hours

70. 2017B - Gemini South - GS-2017B-Q-84 (Band 4): 107.82 hours
69. 2017A - Southern African Large Telescope - 2017-1-MLT-012: 55.6 hours
68. 2017A - Gemini North - GN-2017A-Q-82 (Band 3): 202.0 hours
67. 2017A - Gemini South - GS-2017A-Q-86 (Band 3): 142.5 hours
66. 2017A - ESO/NTT - 099.D-0428: 5.0 nights
65. 2017A - LCO/Magellan Telescope - Carnegie Time: 3 nights
64. 2017A - LCO/duPont Telescope - Carnegie Time: 19 nights
63. 2017A - SOAR - 2017A-0016: 40 hours
62. 2016B - Gemini North - GN-2016B-Q-77 (Band 3): 6.4 hours
61. 2016B - Gemini South - GS-2016B-Q-81 (Band 3): 32.3 hours
60. 2016B - ESO/NTT - 098.D-0434: 4.0 nights
59. 2016B - Hubble Space Telescope - Cycle 24 - HST-GO-14765: 40 orbits
58. 2016B - LCO/duPont Telescope - Carnegie Time: 5 nights
57. 2016A - ESO/NTT - 097.D-0196: 7.0 nights
56. 2016A - Apache Point Observatory - UW07: 2.5 nights
55. 2016A - Gemini North - GN-2016A-Q-17 (Band 1): 9.8 hours
54. 2016A - Gemini North - GN-2016A-Q-75 (Band 3): 79.4 hours
53. 2016A - Gemini South - GS-2016A-Q-76 (Band 3): 74.0 hours
52. 2016A - SOAR - 2016A-0019: 4.0 nights
51. 2015B - Southern African Large Telescope - 2015-2-SCI-056: 117.8 hours
50. 2015B - Hubble Space Telescope - Cycle 23 - HST-GO-14231: 18 orbits
49. 2015B - Gemini North - GN-2015B-Q-86 (Band 3): 26.5 hours
48. 2015B - Gemini South - GS-2015B-Q-71 (Band 3): 42.9 hours
47. 2015B - SOAR - 2015B-0020: 5.0 nights
46. 2015A - ESO/VLT - 095.D-0504(A): 30.0 hours
45. 2015A - Gemini North - GN-2015A-Q-76 (Band 3): 45.8 hours
44. 2015A - Gemini South - GS-2015A-Q-77 (Band 3): 42.8 hours
43. 2015A - Gemini South - GS-2015A-Q-92 (Band 4): 26.0 hours
42. 2014B - ESO/VLT - DDT293.D-5036(A): 2.4 hours
41. 2014B - Gemini South - GS-2014B-Q-67 (Band 3): 55.0 hours
40. 2014B - Gemini North - GN-2014B-Q-85 (Band 3): 55.0 hours
39. 2014B - KPNO Mayall - 2014B-0231: 3.0 nights
38. 2014B - SOAR - 2014B-0231: 3.0 nights
37. 2014A - Gemini South - GS-2014A-Q-88 (Band 3): 66.7 hours
36. 2014A - KPNO Mayall - 2014A-0323: 8.0 nights
35. 2013B - KPNO Mayall - 2013B-0046: 6.5 nights
34. 2013B - Gemini South - GS-2013B-Q-75 (Band 3): 50.0 hours
33. 2013B - Gemini North - GN-2013B-Q-81 (Band 3): 50.0 hours
32. 2013B - SOAR - SO2013B-S102: 17.0 hours (long term)
31. 2013B - ESO/NTT - 092.D-0308(A): 6 nights

30. 2013B - McDonald 2.1m - McD13-3: 5 nights
29. 2013B - LNA/Brazil - 2013B-P012: 6 nights
28. 2013B - NOT (Nordic Optical Telescope) - 48-031: 3.5 nights
27. 2013A - Gemini North - GN-2013A-Q-113 (Band 4): 54.5 hours
26. 2013A - Gemini South - GS-2013A-Q-91 (Band 3): 54.6 hours
25. 2013A - Gemini South - GS-2013A-Q-95 (Band 4): 10.9 hours
24. 2013A - ESO/NTT - 091.D-0292(A): 6 nights
23. 2013A - LNA/Brazil - 2013A-P030: 4 nights
22. 2013A - SOAR - SO2013A-LP2: 17.0 hours (long term)
21. 2013A - NOT (Nordic Optical Telescope) - 47-003: 3.0 nights
20. 2012B - NOT (Nordic Optical Telescope) - 46-011: 2.5 nights
19. 2012B - ESO/VLT (X-Shooter) - 090.D-0321(A): 12 hours
18. 2012B - LCO/Magellan - MAG/12B/9: 2 nights
17. 2012B - AAO/AAT - AAT/12B/032: 6 nights
16. 2012B - SOAR - SO2012B-005: 8.0 hours (long term)
15. 2012A - Gemini South - GS-2012A-Q-81 (Band 4): 74.0 hours
14. 2012A - AAO/AAT - AAT/12A/011: 4 nights
13. 2012A - LCO/Magellan - MAG/12A/7: 2 nights
12. 2012A - SOAR - SO2012A-002: 16.0 hours
11. 2011B - Gemini South - GS-2011B-Q-91 (Band 4): 75.0 hours
10. 2011B - SOAR (SO2011B-008): 24.0 hours
9. 2011A - Gemini South - GS-2011A-Q-85 (Band 3): 63.4 hours
8. 2011A - CFHT - CF2011A-002: 13.9 hours
7. 2010B - CFHT - 10BB05A/10BB99B: 13.9 hours
6. 2010A - Gemini South - GS-2010A-Q-78 (Band 4): 25.0 hours
5. 2009B - SOAR - SO2009B-004: 17.0 hours
4. 2009A - SOAR - SO2009A-0249: 6 nights
3. 2009A - SOAR - SO2009A-014: 32.0 hours
2. 2008A - SOAR - SO2008A-006: 3 nights
1. 2007B - SOAR - SO2007B-006: 3 nights

Press releases, articles, and media resources

2020

Inside Higher Ed (online)
The rise of the remote Ph.D. defense

Gemini Observatory - GeminiFocus 2019 Year In Review (online)
Making Good Use of Bad Weather: Finding Metal-poor Stars Through the Clouds

2019

MIT News (online)
Explosions of universe's first stars spewed powerful jets

Gemini Observatory News (online)
Making Good Use of Bad Weather: Finding Metal-poor Stars Through the Clouds

Gemini Observatory - GeminiFocus April 2019 Lead Science Article (online)
Making Good Use of Bad Weather: Finding Metal-poor Stars Through the Clouds

2018

Notre Dame Science - Department of Physics News (online)
Summertime Stargazing event draws large crowd

Notre Dame Stories (online)
Heavy Metals

2017

Revista FAPESP (in Portuguese - online)
Fonte de ouro e régua do universo

Agência FAPESP (in Portuguese - online)
Nova fonte de ondas gravitacionais é observada

Notre Dame News (online)
Students in right place, right time witness first-ever detected neutron star collision

Notre Dame College of Science News (online)
Astrophysics graduate students witness first-ever detected neutron star collision

Agência FAPESP (in Portuguese - online)
Estudo detecta elétrons duplamente acelerados no choque de aglomerados de galáxias

École Polytechnique News (online)
The inaugural issue of Nature Astronomy features the work of F. Andrade-Santos

Jornal da USP (in Portuguese - online)
Cientistas descobrem poderosa colisão cósmica dupla

Folha de São Paulo (in Portuguese - online)
Quando aglomerados de galáxias colidem e um buraco negro gigante entra no meio da história

Nature Astronomy (online - issue cover)
The case for electron re-acceleration at galaxy cluster shocks

Chandra X-ray Observatory Blog (online)
The Discovery of Particle Re-acceleration in a Galaxy Cluster Collision

Notre Dame News (online)
Notre Dame astrophysicist confirms source of galaxy collision

2016

Nature Physics (online - issue cover)
The age structure of the Milky Way's halo

Notre Dame News (online)
Second-generation stars identified, giving clues about their predecessors

Science Alert (online)
Astronomers have created the most detailed age map of the Milky Way yet

Universe Today (online)
Best picture yet of Milky Way's formation 13.5 billion years ago

Notre Dame News (online)
Detailed age map shows how Milky Way came together

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

Daily Mail (online)
Graphic shows age structure of the Milky Way's halo

Astrobites (online)
Our halo is getting younger, spatially speaking

UPI (online)
New map details formation of the Milky Way galaxy

International Business Times (online)
How Did The Milky Way Form? New Chronographic Map Provides Answers

Phys.org (online)
Detailed age map shows how Milky Way came together

Reddit Journal of Science (online)
Detailed age map shows how Milky Way came together

Science Daily (online)
Detailed age map shows how Milky Way came together

Laboratory Equipment (online)
Detailed age map shows how Milky Way came together

Geek Journal (online)
Detailed age map shows how Milky Way came together

AboNewsCast (online)
Detailed age map shows how Milky Way came together

Science Newsline (online)
Detailed age map shows how Milky Way came together

MSU Today (online)
Astronomers pinpoint how Milky Way Galaxy was formed

Ancient Code (online)
How the Milky Way formed: Awesome 3D map shows how 130,000 stars merged

Astro Watch (online)
Detailed Age Map Shows How Milky Way Came Together

Science Bulletin (online)
Detailed Age Map Shows How Milky Way Came Together

Science Blog (online)
Astronomers pinpoint how Milky Way Galaxy was formed

EurekAlert! (online)
Detailed Age Map Shows How Milky Way Came Together

nano werk! (online)
Detailed Age Map Shows How Milky Way Came Together

Life Science Network (online)
The age structure of the Milky Way's halo

Jornal da USP (in Portuguese - online)
Astrônomos brasileiros mapeiam estrutura de idades do halo da Via Láctea

Agência FAPESP (in Portuguese - online)
Pesquisadores mapeiam a distribuição cronológica dos astros da Via Láctea

Revista Galileu (in Portuguese - online)
Brasileiros confirmam que estrelas na borda da Via Láctea são as mais novas

O Povo (in Portuguese - online)
Como os astros da Via Láctea se distribuem?

Space Today TV (in Portuguese - online)
Como a Via Láctea Se Formou

Público (in Spanish - online)
Así se formó la Vía Láctea

Geofísica Brasil (in Portuguese - online)
IAG-USP mapeia distribuição cronológica dos astros da Via Láctea

Planeta Universitário (in Portuguese - online)
Pesquisadores mapeiam a distribuição cronológica dos astros da Via Láctea

News Rondônia (in Portuguese - online)
Pesquisadores mapeiam a distribuição cronológica dos astros da Via Láctea

JINA-CEE Newsletter (online - Page 2)
Evidence for Multiple Progenitors of CEMP-no Stars

Space Daily (online)
Relics of the Milky Way's first generation of stars

University of Michigan News (online)
Relics of the Milky Way's first generation of stars

Notre Dame News (online)
Astrophysicists release new study of one of the first stars

Newswise (online)
Astrophysicists release new study of one of the first stars

EurekAlert! - AAAS (online)
Astrophysicists release new study of one of the first stars

Scientia (online - page 13)
Physics team creates Milky Way galaxy map

JINA-CEE Newsletter (online)
Discovery of the Brightest Ultra Metal-Poor Star

Agência FAPESP (in Portuguese - online)

Via Láctea cresceu de dentro para fora

Exame.com (in Portuguese - online)
Via Láctea cresceu de dentro para fora, diz pesquisa

Planeta Universitário (in Portuguese - online)
Via Láctea cresceu de dentro para fora

European Southern Observatory Photo Press Release (online)
ESO Telescopes Spy a Rare Relic

Notre Dame News (online)
Newly discovered star offers opportunity to explore origins of first stars in the early universe

Space Daily (online)
How the first stars sprung to life in early universe

Astronomy Now UK (online)
Ancient star provides insight into stellar origins in early universe

Empresa Brasil de Comunicação (in Portuguese - online)
História da Via Láctea ganha novos capítulos com descoberta de estrela por equipe da USP

Correio Braziliense (in Portuguese - online)
Astrônomos brasileiros identificam estrela rara na Via Láctea

Globo.com (in Portuguese - online)
Professor da USP descobre estrela tão antiga quanto o Universo

G1.globo.com (in Portuguese - online)
Astrônomos identificam estrela antiga e rara na Via Láctea

Agência USP de Notícias (in Portuguese - online)
Estrela traz evidências do início da Via Láctea

Universidade de Sâo Paulo - Notícias (in Portuguese - online)
Equipe liderada pela USP identifica estrela chave para entender o início da Via Láctea

Agência FAPESP (in Portuguese - online)
Astrônomos brasileiros identificam estrela rara na Via Láctea

Folha de São Paulo (in Portuguese - online)
Astrônomos encontram uma estrela quase tão velha quanto o próprio Universo

JINA-CEE Newsletter (online)
Hubble Space Telescope Near-Ultraviolet Spectroscopy of Bright CEMP-s Stars

JINA-CEE Newsletter (online)
The First Age Map of the Galactic Halo

2015

Jornal da USP (in Portuguese - online)
Mapa permite estimar idade dos componentes da Via Láctea

UOL Notícias (in Portuguese - online)
Mapa permite estimar idade das estrelas da Via Láctea

Astronomy & Astrophysics Highlights (online)
2MASS J18082002−5104378: The brightest ($V=11.9$) ultra metal-poor star

The Observer (online and print)
Galactic archeologists create the first map of Milky Way's stellar halo

Best Education News (online)

Astrophysicists produce the first age map of the halo of the Milky Way

National Science Foundation - News from the Field (online)
Astrophysicists produce the first age map of the halo of the Milky Way

Notre Dame News (online)
Astrophysicists produce the first age map of the halo of the Milky Way

The Watchers (online)
The first age map of the Milky Way's halo produced

Red Orbit (online)
First-ever Milky Way age map shows oldest stars clustered in center

Headlines and Global News (online)
Milky Way Age Map Created For The First Time, Confirming Past Assumptions In Astrophysics

Global News Connect (online)
Astrophysicists furnish a initial age map of a Halo of a Milky Way

Sciece World Report (online)
First Ever Age Map of the Milky Way Galaxy Reveals History of the System

Media INAF (in Italian - online)
Quanto è vecchia la Via Lattea?

The Observer (online and print)
"Our Universe Revealed" lecture looks at chemical composition of stars

2014

JINA-CEE Newsletter (online)
Seven New Stars with [Fe/H]< -3 *– Six of them CEMP-no*

Phys.org (online)
Galactic archaeologists uncover new insights into the formation of the earliest stars and galaxies