Curriculum Vitæ - Vinicius Moris Placco

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Contents

Personal information

Full name	Vinicius [vee-nee-cee-uh-s] Moris Placco
Languages	Portuguese (native), English (fluent), Spanish (intermediate), Italian (basic)
Address	950 N. Cherry Ave. Tucson, AZ 85719, USA
Phone	+1 (520) 318-8000 / 318-8566
Website	http://vmplacco.github.io/
e-mail	vmplacco@gmail.com

Employment / Appointments

2023– Head of the US National Gemini Office
Community Science & Data Center
NSF's National Optical-Infrared Astronomy Research Laboratory

2022– Associate Astronomer
Community Science & Data Center
NSF's National Optical-Infrared Astronomy Research Laboratory

2020–2022 Associate Scientist
Community Science & Data Center
NSF's National Optical-Infrared Astronomy Research Laboratory

2015–2020 Research Assistant Professor
Department of Physics
University of Notre Dame

2018–2020 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

2010–2011 External Consultant - Data Science and Statistics
Suzuki Veículos do Brasil S/A

2010–2010 Freelance Translator - Astronomy Brasil Magazine
Ediouro Duetto Editorial

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

2020–present Hubble Space Telescope External Proposal reviewer
2018–present Member of the J-PAS Survey Science Committee (Javalambre Physics of the Accelerating Universe Survey)
2018–present Co-coordinator of the Resolved Stellar Population Working Group of the J-PAS Survey
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
2017–present Subaru Telescope Proposal reviewer – category group: Normal Stars, Metal-Poor Stars
2017–present Member of the S-PLUS Advisory Committee (Southern Photometric Local Universe Survey)
2017–present Principal Investigator of the S-PLUS Short Survey

2019–2020 Member of the NSF's NOIR Lab Time Allocation Committee - Galactic Panel 2
2017–2020 US representative for the Gemini Observatory Users Committee
2018–2019 Member of the NOAO Time Allocation Committee - Galactic Panel 2
2017–2018 Member of the Gemini OCS Upgrades Working Group
2018 US Extremely Large Telescope Program – First Stars Key Science Project

Operations and Instrument/User Support

2020–present **NSF's NOIRLab**: Community Science & Data Center – US National Gemini Office
Product development for the Gemini user community:
Twitter account bots – daily completion, weekly paper, monthly completion, other metrics
GitHub repositories – DRAGONS Imaging tutorials, IRAF Spectroscopy tutorials, users dashboard
Co-organization of AAS Splinter Meetings
Migration and maintenance of the US NGO Portal
Migration and maintenance of the GMOS Cookbook
Gemini HelpDesk – Responsible for selected Tiers 2 and 3 inquiries

2021–present **NSF's NOIRLab**: Communications, Education & Engagement
Supported the migration of the NOAO Science website to the new NOIRLab Science website
Developed, revised, and curated content for the NOIRLab Science website
Serve as a liaison between RSS and CEE
Support science staff in adding/editing content on the science webpages
Responding/routing science inquiries from usercomms@noirlab.edu and info@noirlab.edu
Add/moderate content for scientific meetings in the Science Events database

2021–2022 **NSF's NOIRLab**: Gemini Observatory – Science User Support Department
Part of the Science Verification effort for the DRAGONS spectroscopic routines
Early testing of the quick-look and interactive tools for DRAGONS
Performance comparison between Gemini/IRAF and DRAGONS packages

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	16	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

2023–2026 Hubble Space Telescope (Co-I)
Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars
Space Telescope Science Institute (USD 2,873)

Past (Total: USD 470,229)

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)

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)

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

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

2023/2022 Universidade de São Paulo
Instituto de Astronomia, Geofísica e Ciências Atmosféricas
Funding: NOIRLab/USP/FAPESP

2020/2018 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
2007 Michigan State University
Physics and Astronomy Department
Funding: JINA (USA), FAPESP, PROEX (Brazil)

Academic Experience

Student/Postdoc supervision

Postdoctoral level

2022–2023 Felipe de Almeida Fernandes (Universidade de São Paulo - Visiting Fellow at NSF's NOIRLab)

Graduate Level

2023– Eduardo Machado Pereira (Observatório Nacional - Brazil)
2019–2022 Carlos Andrés Galarza Arevalo (Observatório Nacional - Brazil)
2019–2022 Joseph Zepeda (University of Notre Dame)
2019–2022 Derek Shank (University of Notre Dame)
2015–2020 Sarah Dietz (University of Notre Dame)
2015–2020 Dmitrii Gudin (University of Notre Dame)
2015–2020 Devin Whitten (University of Notre Dame)
2015–2020 Kaitlin Rasmussen (University of Notre Dame)
2015–2017 Geoffrey Lentner (University of Notre Dame)
2010–2016 Rafael Santucci (M.Sc. and Ph.D. - Universidade de São Paulo)

Undergraduate Level - University of Notre Dame

2020 Dante Komater (Physics Major)
2019–2020 Lucas Pinheiro (Engineering Major)
2019 Shenghua Liu (Physics Major)
2019 Winter Allen (Arkansas Tech University - REU)
2019 Yihao Zhou (Shanghai Jiao Tong University - REU)
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

2019–2020 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

2023 Yuri Abuchaim de Oliveira (M.Sc.)
Universidade de São Paulo
2023 Fabricia Oliveira Barbosa (M.Sc.)
Universidade de São Paulo
2018–2022 Heitor Ernandes (Ph.D. - committee chair)
Universidade de São Paulo
2021 Raphaela Fernandes de Melo (M.Sc.)
Observatório Nacional
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

Teaching

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

Undergraduate

University of Notre Dame

2020	(LI)	Descriptive Astronomy (SU20-PHYS-10140)
		Course Instructor Feedback: 5.0/5.0 - link to full report
	(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

Other relevant information

Technical 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, drupal, Google Analytics, Matomo
Graphics: Gnuplot, ggplot2, matplotlib, bokeh, tableau
Data reduction: IRAF/Pyraf packages, DRAGONS, ESO Reflex/Gasgano
Astronomy tools: WCSTools, CDSclient, STILTS, SkyCalc
Documentation: Sphinx, readthedocs
Version control and DevOps: Git, GitHub, GitLab

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
Referee for Astronomy & Computing

Invited / Contributed talks

2023

87. DELVE Collaboration Meeting
How to also find what you are not looking for: going on a fishing expedition
86. XIX J-PAS Collaboration Meeting
An R-process Enhanced Extremely Metal-Poor Star Identified with Narrow-band Photometry
85. International Research Network for Nuclear Astrophysics – Online Seminar Series (watch it on Youtube)
Neutron-capture in the wild: finding r-process enhanced metal-poor stars in the Milky Way and beyond
84. Observatório Nacional – S-PLUS 18th Collaboration Meeting
An r-process enhanced extremely metal-poor star identified by S-PLUS
83. NSF's NOIRLab – NOIRLab South Colloquium
What else can you find when looking for Carbon Enhanced Ultra Metal-Poor Stars? A GHOST Story
82. NSF's NOIRLab – GHOST Webinar Series
How to Find What You Are Not Looking For: The curious case of SPLUS J1424-2542
81. Lund University
What else can you find when looking for Ultra Metal-Poor Stars?
80. NSF's NOIRLab – SWEETS (Support Work Education and Exchange Talk Series)
The US National Gemini Office

2022

79. Centro de Estudios de Física del Cosmos de Aragón – 18th J-PAS Collaboration Meeting
The miniJPAS survey: stellar atmospheric parameters from 56 optical filters
78. NSF's NOIRLab – DECam at 10 years - Looking Back, Looking Forward
Searching for Chemically Pristine Stars with Narrowband Photometry
77. Centro Brasileiro de Pesquisas Físicas – S-PLUS 17th Collaboration Meeting
Mining S-PLUS for Metal-Poor Stars in the Milky Way
76. Planetário da Gávea, Rio de Janeiro – O Céu do Sul e suas Maravilhas
SPLUS J2104−0049 e a Evolução Química do Universo
75. Universidade de São Paulo – Astronomia ao Meio-dia (watch it on Youtube – in Portuguese)
A Tabela Periódica Astrofísica
74. Universidade de São Paulo – Astrophysics Colloquium (watch it on Youtube)
Is Carbon Ubiquitous in the High-Redshift Universe? A Stellar Archaeology perspective
73. Gemini Observatory Science Meeting 2022
Making good use of bad weather: a chemically pristine star found through the clouds with Gemini
72. Observatório Nacional – Seminário da Coordenação de Astronomia e Astrofísica
Stellar Archaeology and Near-Field Cosmology: Understanding the Chemical Evolution of the Universe

2021

71. Universidade de São Paulo – S-PLUS 16th Collaboration Meeting
Mining the S-PLUS catalog to find chemically peculiar stars in the Galaxy
70. Instituto Nacional de Pesquisas Espaciais – Seminários da Divisão de Astrofísica (watch it on watch it on Youtube)
Stellar Archaeology and Near-Field Cosmology: Understanding the Chemical Evolution of the Universe
69. Universidade Federal de Santa Catarina – IX Encontro de Física e Astronomia da UFSC
Stellar Archaeology and Near-Field Cosmology: Understanding the Chemical Evolution of the Universe

68. 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

67. Universidade de São Paulo – S-PLUS 15th Collaboration Meeting
Searching for low-metallicity stars in S-PLUS

66. NSF's NOIRLab – Live from NOIRLab @ Hawai'i (watch it on Youtube)
A chemically-peculiar star found from its colors

2020

65. NSF's NOIRLab – Live from NOIRLab @ Hawai'i (Youtube)
The Age and Chemical Evolution of the Universe from Two Stars in the Milky Way

64. NSF's NOIRLab – Gemini Observatory Science Coffee
From R=40 to R=40,000: Mining narrow-band photometric catalogs in search of low-metallicity stars

63. 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

62. Regional Center for Space Science and Tec Education for West Asia / Arab Union for Astronomy & Space Science
Our eyes in the skies: How telescopes help us place ourselves in the Universe

61. NSF's NOIRLab Colloquium
Near-Field Cosmology with Narrow-Band Photometry and Spectroscopy of Low-Metallicity Stars

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

59. Universidade de São Paulo – Astronomia ao Meio-dia (watch it on Youtube – in Portuguese)
Agulhas no palheiro: A evolução química e idade do Universo contadas por duas estrelas

2019

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

57. 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

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

55. 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

54. 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

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

52. 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

51. 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

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

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

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

47. University of Notre Dame – Astronomy 1-minute talks (23 presenters)
Organizer and Presenter

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

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

44. 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?

43. Centro de Estudios de Física del Cosmos de Aragón – J-PLUS 2$^{\rm nd}$ Virtual Meeting
J-PLUS Stellar Parameter Value Added Catalog

42. 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

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

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

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

38. 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

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

2017

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

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

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

33. 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

32. 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)

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

30. 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

29. Centro de Estudios de Física del Cosmos de Aragón – J-PLUS 1$^{\rm st}$ Virtual Meeting
Identifying (Carbon-Enhanced) Metal-Poor Stars from J-PLUS Photometry

28. 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

27. Universidade de São Paulo – Astrophysics Colloquium
Searching for the Origin of the Elements Using a 12-Color Map of the Night Sky

2016

26. University of Notre Dame – Astrophysics Seminar
A Monte Carlo approach to find the Progenitors of Ultra Metal-Poor Stars

25. University of Notre Dame – Department of Physics Colloquium
Searching for the Origin of the Elements Using a 12-Color Map of the Night Sky

24. University of Notre Dame – Astronomy 1-minute talks (19 presenters)
Organizer and Presenter

23. Universidade de São Paulo – X-PLUS Collaboration Meeting
Identifying Bright Carbon-Enhanced Metal-Poor Stars from S-PLUS Photometry

22. University of Notre Dame – Research Experiences for Undergraduates (REU) Program
Near-Field Cosmology with Metal-Poor Stars

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

20. University of Notre Dame – Our Universe Revealed
Our eyes in the skies: How telescopes help us place ourselves in the Universe

19. 227th Meeting of the American Astronomical Society
Identifying Bright Carbon-Enhanced Metal-Poor Stars in the RAVE Catalog

2015

18. 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?

17. University of Notre Dame – Astronomy 1-minute talks (15 presenters)
Organizer and Presenter

16. 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*

15. Michigan State University – JINA-CEE Nuclear Astrophysics Lunch Research Discussions
Observing the First Stars through the Atmospheres of Ultra Metal-Poor Stars

14. Universidade de São Paulo – X-PLUS Collaboration Meeting
Identifying Carbon-Enhanced Metal-Poor Stars from S-PLUS Photometry

13. 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

12. University of Notre Dame – Astronomy Seminar
Exploring the history of the Galactic halo with Carbon-Enhanced Metal-Poor stars

11. Massachusetts Institute of Technology – Kavli Institute
Exploring the history of the Galactic halo with Carbon-Enhanced Metal-Poor stars

2013

10. National Optical Astronomy Observatory
(Carbon Enhanced) metal-poor stars and the chemical evolution of the Universe

9. Gemini Observatory – Northern Operations Center
Metal-poor stars as tracers of the chemical evolution of the Galaxy

2012

8. Universidade Cruzeiro do Sul - Astronomy Colloquium
Search for Carbon-Enhanced Metal-Poor stars in the Halo(es) of the Galaxy

7. Universidade de São Paulo - Astronomy Colloquium
Spectroscopy from R=300 to 30000: metal-poor stars and Galactic chemical evolution

6. Universidade de São Paulo - Invitation to Physics: undergraduate weekly seminar
Galactic Archaeology: chemical evolution of the Universe revealed by metal-poor stars

5. Universidade de São Paulo - Astronomy at noon: undergraduate weekly seminar
Census of the Milky Way

2011

4. Universidade de São Paulo - Chemical Evolution Group Seminar
Rediscovering the Dual Halo of the Milky Way via Hierarquical Clustering

3. Universidade de São Paulo - Astronomy at noon: undergraduate weekly seminar
Stellar Archaeology

2. Universidade de São Paulo - Astronomy Colloquium
Making good use of bad weather: finding extremely metal-poor stars in the clouds

1. ESO Headquarters - Santiago - Astronomy Colloquium
Searches for Metal-Poor Stars from the Hamburg/ESO Survey using the CH G-band

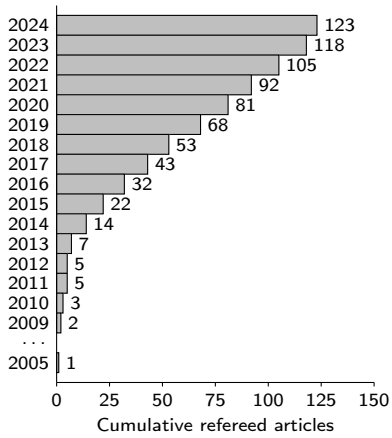
Quantitative Indicators

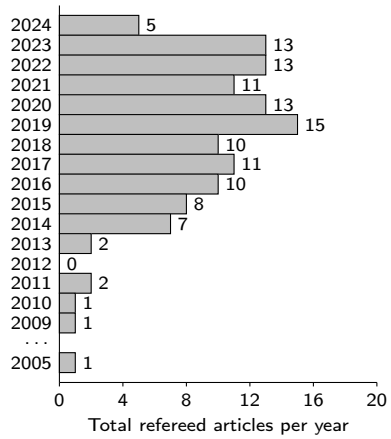
- ADS: **8164 citations / h-index = 41 / i10-index = 103** (February 21, 2024 - ADS link)
- Google Scholar: **9618 citations / h-index = 45 / i10-index = 101** (February 21, 2024 - Google Scholar link)
- ADS Publication List (complete - ADS link) / (refereed only - ADS link)
- ORCID iD - 0000-0003-4479-1265 / ResearcherID - C-6864-2015

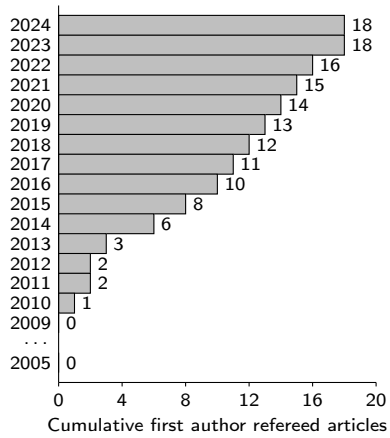
Publication list

Refereed articles

Total: 123 publications (incl. 18 first, 12 second, 16 third, and 14 fourth author articles)







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The R-Process Alliance: 2MASS J22132050−5137385, the Star with the Highest-known r-process Enhancement at [Eu/Fe] = +2.45
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The R-Process Alliance: Detailed Chemical Composition of an R-Process Enhanced Star with UV and Optical Spectroscopy
2024, **Monthly Notices of the Royal Astronomical Society**, in press

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Probing the early Milky Way with GHOST spectra of an extremely metal-poor star in the Galactic disk
2024, **Monthly Notices of the Royal Astronomical Society**, vol. 527, 7810 (ADS | PDF)

120. Quispe-Huaynasi, F., Roig, F., **Placco, V. M.**, Beraldo e Silva, L., Pereira, C. B., Daflon, S., Kanaan, A., Mendes de Oliveira, C., Ribeiro, T., Schoenell, W.
Characterisation of high velocity stars in the S-PLUS internal fourth data release
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SPLUS J142445.34−254247.1: An R-Process Enhanced, Actinide-Boost, Extremely Metal-Poor star observed with GHOST
2023, **The Astrophysical Journal**, vol. 959, 60 (ADS | PDF)

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Telescope time allocations

Approved observing projects: 185
Total awarded: 6719.32 hours
*does not include time allocated through university partnerships

Principal Investigator

Approved observing projects: 51
Total awarded: 1771.80 hours

51. 2023B - Gemini South - GS-2023B-FT-301 (Fast Turnaround): 2.25 hours
50. 2023A - Gemini South - GS-2023A-SV-101 (Band 1): 4.0 hours
49. 2023A - Gemini South - GS-2023A-Q-407 (Band 4): 40.0 hours
48. 2022A - Gemini South - GS-2022A-Q-406 (Band 4): 30.0 hours
47. 2022A - CTIO Blanco - 2022A-210002: 5.0 nights
46. 2021A - Gemini South - GS-2021A-Q-419 (Band 4): 40.0 hours
45. 2021A - CTIO Blanco - 2021A-0000: 5.0 nights
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: 134
Total awarded: 4947.52 hours

134. 2024A - Gemini South - GS-2024A-Q-109 (Band 1): 3.80 hours
133. 2024A - Gemini South - GS-2024A-Q-130 (Band 1): 13.00 hours
132. 2024A - Gemini South - GS-2024A-Q-206 (Band 2): 21.20 hours
131. 2024A - Gemini South - GS-2024A-Q-225 (Band 2): 16.00 hours
130. 2024A - Gemini South - GS-2024A-Q-233 (Band 2): 1.10 hours
129. 2024A - Gemini South - GS-2024A-Q-324 (Band 3): 4.50 hours
128. 2024A - Gemini South - GS-2024A-Q-333 (Band 3): 3.41 hours
127. 2023B - Southern African Large Telescope - 2023-2-SCI-005: 14.5 hours
126. 2023B - Gemini South - GS-2023B-FT-210 (Fast Turnaround): 6.84 hours
125. 2023B - Gemini South - GS-2023B-Q-107 (Band 1): 20.00 hours
124. 2023B - Gemini South - GS-2023B-Q-309 (Band 3): 4.09 hours
123. 2023B - Gemini South - GS-2023B-Q-322 (Band 3): 5.06 hours
122. 2023A - Southern African Large Telescope - 2023-1-SCI-007: 8.85 hours
121. 2023A - Gemini South - GS-2023A-Q-412 (Band 4): 42.00 hours
120. 2022B - Gemini North - GN-2022B-Q-211 (Band 2): 11.40 hours
119. 2022B - Gemini South - GS-2022B-Q-227 (Band 2): 7.10 hours
118. 2022B - Gemini South - GS-2022B-Q-318 (Band 3): 10.96 hours

117. 2022B - Southern African Large Telescope - 2022-2-SCI-011: 20.0 hours
116. 2022A - SOAR - 2022A-001: 8 hours
115. 2022A - SOAR - 2022A-006: 40 hours
114. 2022A - Subaru - KR-2022A-008: 10.00 hours
113. 2022A - Gemini South - GS-2022A-Q-128 (Band 1): 1.20 hours
112. 2022A - Gemini South - GS-2022A-Q-132 (Band 1): 4.60 hours
111. 2022A - Gemini South - GS-2022A-Q-234 (Band 2): 3.10 hours
110. 2022A - Gemini South - GS-2022A-Q-233 (Band 2): 11.60 hours
109. 2022A - Gemini South - GS-2022A-Q-238 (Band 2): 4.00 hours
108. 2022A - Gemini South - GS-2022A-Q-322 (Band 3): 5.20 hours
107. 2022A - Gemini South - GS-2022A-Q-323 (Band 3): 2.20 hours
106. 2022A - Gemini South - GS-2022A-Q-325 (Band 3): 9.40 hours
105. 2021B - Gemini North - GN-2021B-Q-111 (Band 1): 9.70 hours
104. 2021B - Gemini South - GS-2021B-Q-127 (Band 1): 2.20 hours
103. 2021B - Gemini South - GS-2021B-Q-232 (Band 2): 6.10 hours
102. 2021B - Gemini South - GS-2021B-Q-130 (Band 1): 3.60 hours
101. 2021B - Gemini South - GS-2021B-Q-321 (Band 3): 16.60 hours
100. 2021A - Gemini North - GN-2021A-FT-209 (Band 1): 2.20 hours
99. 2021A - Gemini North - GN-2021A-FT-205 (Band 1): 3.00 hours
98. 2021A - Gemini North - GN-2021A-Q-111 (Band 1): 14.20 hours
97. 2021A - Gemini South - GS-2021A-Q-230 (Band 2): 10.00 hours
96. 2021A - SOAR - 2021A-007: 40 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

2023

Phys.org
Ancient stars made extraordinarily heavy elements, researchers find

Indiana Daily Student
IU professor provides insight into evolution of stars (external opinion)

2022

Hawaii Tribune-Herald
Cloud of matter could be remains of oldest stars (external opinion)

Space.com
Stunning time-lapse videos show the Super Flower Blood Moon in bloom

digg
Footage From Gemini Observatory's Fisheye Lens Captures A Stunning Glimpse Of The Milky Way

Associated Press
Twinkle, twinkle giant star, astronomers see how far you are (external opinion)

2021

NBC News
An ancient star casts new light on the birth of the universe

Phys.org
Reseachers detect a new ultra-metal-poor star

NOIRLab Stories
Ultra Metal-Poor Star Discovery

Revista FAPESP (featured article)
Star Fossil

S-PLUS Press Release
Astronomers discover an ultra metal-poor star that challenges models for the evolution of the first stars

India Education Diary
University Of São Paulo: Astronomers Discover Star That Challenges Current Models Of Evolution Of The Universe

Jornal da USP (in Portuguese)
Astrônomos descobrem estrela que desafia modelos atuais de evolução do Universo

Ravista FAPESP (in Portuguese)
Fóssil Estelar

Observatório Nacional (in Portuguese) - Audio interview
Astrônomos descobrem estrela que desafia modelos atuais de evolução do Universo

Revista Planeta (in Portuguese)
Achada estrela que desafia modelos atuais de evolução do universo

tilt UOL (in Portuguese)
"Ultrapobre": brasileiros encontram uma das estrelas mais raras do universo

Sputnik News Brasil (in Portuguese)
Detectada estrela recordista em carência metálica que pode explicar evolução inicial do Universo

Hypeness (in Portuguese)
Telescópio com tecnologia brasileira localiza estrela mais velha que o Sol

Notícias da Universidade Federal de Santa Catarina (in Portuguese)
Projeto internacional de astronomia com participação da UFSC descobre estrela rara

Agência Brasil - Rádio Nacional (in Portuguese - with audio interview)
Universo: cientistas descobrem estrela rara e considerada ultrapobre

CAPES - Ministério da Educação (in Portuguese)
Estrela rara desafia lógica da astrofísica

TEKCRISPY (in Spanish)
La humanidad podría haber descubierto una de las estrellas más antiguas del universo

NOIRLab Stories (in Spanish)
Descubrimiento de una estrella ultra pobre en metal

2020

Phys.org (online)
Peculiar chemical abundance pattern detected in the star RAVE J183013.5-455510

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

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

2019

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

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

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

2018

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

Notre Dame Stories (online)
Heavy Metals

2017

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

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

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

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

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

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

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

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

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

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

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

2016

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Notre Dame News (online)

Astrophysicists release new study of one of the first stars

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

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

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

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

Agência FAPESP (in Portuguese - online)
Via Láctea cresceu de dentro para fora

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2015

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

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

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

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

Best Education News (online)
Astrophysicists produce the first age map of the halo of the Milky Way

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

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

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

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

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

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

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