last update: January 13, 2022 (click here for the live version)

Contents

Personal information	. 2
Employment / Appointments	. 2
Education	. 2
Awards	. 2
Dbservatory Experience Leadership Roles/Service Operations and Instrument/User Support Observing Experience	. 3
Research Experience Funding Fellowships Visiting Faculty/Postdoc/Graduate Student	
Academic Experience Teaching	. 8
Orofossianal Poforances	

Personal information

Full name Vinicius [vee-nee-cee-uh-s] Moris Placco Languages Portuguese (native), English (fluent),

Spanish (intermediate), Italian (basic)

Website http://vmplacco.github.io/ e-mail vmplacco@gmail.com

Employment / Appointments

2020- Associate Scientist

Community Science & Data Center – US National Gemini Office 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

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 seleccted Tiers 2 and 3 inquiries

2021-present 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

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

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

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

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

- 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

Student/Postdoc supervision

2016

```
Postdoctoral level
2022–2023 Felipe de Almeida Fernandes (Universidade de São Paulo - Visiting Fellow at NSF's NOIRLab)
Graduate Level (co-advisor) - University of Notre Dame
2019-present
              Carlos Andrés Galarza Arevalo (Observatório Nacional - Brazil)
2019-present
              Joseph Zepeda
2019-present
              Derek Shank
  2015-2020
              Sarah Dietz
 2015-2020 Dmitrii Gudin
 2015-2020
             Devin Whitten
  2015-2020
              Kaitlin Rasmussen
  2015-2017
              Geoffrey Lentner
              Rafael Santucci (M.Sc. and Ph.D. - Universidade de São Paulo)
 2010-2016
Undergraduate Level (advisor) - 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)
            Yihao Zhou (Shanghai Jiao Tong University - REU)
     2019
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
            John Roach
2016-2017
            Cristobal Gonzales
2016-2017
2016-2017
            Michael Kurkowski
     2017
            Jazmine Jefferson (University of Kansas - REU)
            Derek Shank (Ohio Wesleyan University - DISC/REU) - video report
     2017
     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
  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
             Rafael Miloni Santucci (Ph.D.)
       2016
              Universidade de São Paulo
```

January 13, 2022 Page 8

Camilo Francisco Javier Muñoz Peña (M.Sc.)

Universidade de São Paulo

Professional References

Claudia Mendes de Oliveira

Professor of Astronomy; GMTO Board Member; PI - Southern Photometric Local Universe Survey Department of Astronomy – Universidade de São Paulo Rua do Matão, 1226 – São Paulo, SP, Brazil - 05508-090 claudia.oliveira@iag.usp.br - (+55) 11-3091-2707

Anna L. Frebel
Silverman (1968) Family Career Development Associate Professor of Physics Department of Physics – Massachusetts Institute of Technology 664C McNair Building, 70 Vassar Street – Cambridge, MA - 02139 afrebel@mit.edu – (617) 253-3718

Christopher Sneden

Professor, Rex G. Baker, Jr. and McDonald Observatory Centennial Research Professor in Astronomy Department of Astronomy – The University of Texas at Austin 2515 Speedway, Stop C1400 – Austin, TX - 78712 chris@astro.as.utexas.edu – (512) 471-1349

Kim Venn

Professor, Director (Astronomy Research Center, New Technologies for Canadian Observatories)
The Astronomy Research Centre – University of Victoria
111 Elliott, 3800 Finnerty Road – Victoria, BC, Canada - V8P 5C2
kvenn@uvic.ca – (250) 472-5182