

# VINICIUS PLACCO

## Astrophysicist/Data Scientist

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## EXPERIENCE

### Research Assistant Professor

#### University of Notre Dame

📅 April 2015 – Present    📍 Notre Dame, Indiana

- Manages research group with 10-15 people
- Research in Stellar Archaeology using big data applications:
  - Monte Carlo simulations using bash and R ([example](#))
  - Supervised learning, regressions, and data visualization ([example](#))
  - Artificial Neural Networks using Python (co-author - [example](#))
- Presents technical seminars for audiences with wide range of expertise

### Science Fellow

#### Gemini Observatory

📅 February 2014 – March 2015    📍 Hilo, Hawaii

- Observatory operations, [instrument troubleshooting](#), and user support
  - Developed online calculator in C, bash, and gnuplot ([v0.1 Beta](#))
- Research in Stellar Archaeology
  - Evolutionary carbon corrections for stars (bash and Python - [link](#))
- Served as interface between observatory and visitors (staff/scientists)
- Interacted with astronomers, engineers, IT and facilities staff

### Postdoctoral Researcher

#### National Optical Astronomy Observatory

📅 February 2013 – January 2014    📍 Tucson, Arizona

- Research in Stellar Chemical Abundances with statistical applications:
  - Unsupervised clustering analysis using R
- Presented technical seminars and participated in conferences

### Postdoctoral Researcher

#### Universidade de São Paulo

📅 September 2010 – January 2013    📍 São Paulo, Brazil

- Research in Stellar Chemical Abundances with statistical applications:
  - Natural Group Identification using R
- Presented technical seminars and participated in conferences

### External Consultant - Data Science and Statistics

#### Suzuki Motor Company - Brazil

📅 November 2010 – October 2011    📍 São Paulo, Brazil

- Analyzed sales data for cars and parts
- Provided technical expertise for sales forecasting (using mainly R)
- Assisted with general statistics and data analysis inquiries

## EDUCATION

### Ph.D. - Astrophysics

#### Universidade de São Paulo

📅 2010    📍 São Paulo, Brazil

Thesis: [Search for very metal-poor stars based on carbon over-abundance](#)

### M.Sc. - Astrophysics

#### Universidade de São Paulo

📅 2007    📍 São Paulo, Brazil

Dissertation: [Abundance patterns among metal-poor stars in the Galaxy - a statistical approach](#)

### B.Sc. - Physics and Astronomy

#### Universidade de São Paulo

📅 2005    📍 São Paulo, Brazil

## TECHNICAL SKILLS

Shell Scripting, Gnuplot,  $\text{\LaTeX}$  2<sub>ε</sub>  
Linux, Unix, Mac OS  
R, Python, SQL, html, CSS  
Tableau, IDL  
Apache, Fortran, C



## STRENGTHS

Hard-working    Strategic/Critical thinking  
Responsibility  
Team player    Quick learner  
Written/Verbal communication    Organized

## LANGUAGES

Portuguese  
English  
Spanish  
Italian



## ONLINE RESOURCES

- Publication list [with links to pdf files](#)
- Complete Academic [Curriculum Vitae](#)
- [https://stackoverflow.com/](https://stackoverflow.com/profile) [profile](#)