

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, \LaTeX 2_ε
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/profile>