VINICIUS PLACCO

Astrophysicist/Data Scientist

Notre Dame, Indiana +1 (520)468-8215 vmplacco@gmail.com
http://vmplacco.github.io/ linkedin.com/in/vinicius-placco/ github.com/vmplacco/

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*

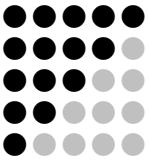
B.Sc. - Physics and Astronomy

Universidade de São Paulo

2005 São Paulo, Brazil

TECHNICAL SKILLS

Shell Scripting, Gnuplot, LaTeX 2ε
Linux, Unix, Mac OS
R, Python, SQL, html, CSS
Tableau, IDL
Apache, Fortran, C

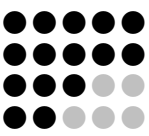


STRENGTHS

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