

José Vinícius de Miranda Cardoso

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Education

- 2011** *Undergraduate in progress in Electrical Engineering*
Federal University of Campina Grande, Brazil
Advisor: Marcelo Sampaio de Alencar
- Fall 2014 – Spring 2015** *Visiting Student – Electrical Engineering and Computer Science*
The Catholic University of America, USA
University of Maryland at College Park, USA
Brazil Scientific Mobility Program, Fully funded scholarship recipient
Advisors: Duilia F. de Mello and Jandro L. Abot
- 2007 – 2010** *Technical Degree in Informatics*
Federal Institute of Education, Science and Technology of Paraíba, Brazil
Advisor: Carlos Danilo Miranda Regis

Professional Experience

- 2017 – Current** *Scientific Software Engineering Intern at Kepler/K2 Guest Observer Office*
NASA Ames Research Center, Silicon Valley, USA
Mentor: Geert Barentsen
- Summer 2016** *Software Developer at Google Summer of Code*
Google Summer of Code – The AstroPy Project
Mentors: Erik Tollerud, Hans Moritz Günther, and Brigitta Sipocz
- Spring 2015** *Undergraduate Teaching Assistant – Probability and Statistics for Engineering and Computer Science*
Federal University of Campina Grande, Brazil
- Fall 2015 – 2016** *Undergraduate Research Assistant*
Institute for Advanced Studies in Communications, Brazil
Mentor: Marcelo Sampaio Alencar
- Summer 2015** *Undergraduate Guest Researcher*
National Institute of Standards and Technology, Gaithersburg, USA
Center for Nanoscale Science and Technology
Nanofabrication Research Group
Mentor: Marcelo Ishihara Davanço
- 2011 – 2014** *Undergraduate Research Assistant*
Institute for Advanced Studies in Communications, Brazil
Mentor: Marcelo Sampaio Alencar
- 2009 – 2010** *High-school Research Assistant*
Federal Institute of Education, Science and Technology of Paraíba
Mentor: Carlos Danilo Miranda Regis

Publications

Refer to <https://mirca.github.io/publications>

Competencies

Software: Python (numpy, scipy, pandas, scikit-learn), git/GitHub, C/C++, MATLAB, Unix shell

Favourite courses: Stochastic Processes, Information Theory, Random Signal Theory, Estimation and Detection Theory, Adaptive Signal Processing, Data Analysis

Languages: Native Portuguese, Fluent English

Awards

1. Selected to GitHub's Field Day, San Francisco, USA, 2017
2. Selected to the Python in Astronomy Conference, Leiden, The Netherlands, 2017
3. Selected to the São Paulo School of Advanced Science on Nanophotonics, São Paulo, Brazil, 2016
4. Travel Grant Recipient, IEEE Antennas and Propagation Symposium, Puerto Rico, 2016
5. Young Author Recognition Award, International Telecommunication Union, ITU Kaleidoscope 2015
6. Young Author Recognition Award, International Telecommunication Union, ITU Kaleidoscope 2014
7. The paper "SQUALES: A QT-based Application for Full-Reference Objective Stereoscopic Video Quality Measurement" was one of the six papers nominated for Best Paper Award at ITU Kaleidoscope 2014

Additional Information

- Member of the AstroPy software development community
- Participated at the *PSF Photometry and Software Workshop*, Space Telescope Science Institute, Baltimore, 2017.
- Participated in the IEEEExtreme 24-Hours Programming Competition in 2013, 2014, 2015, and 2016.
- Student of the week on the IEEE Students Facebook webpage.
- Attended NASA Ames Machine Learning Workshop, 2017.