José (Zé) Vinícius de Miranda Cardoso

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1 Education

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: PhD Duilia F. de Mello and PhD Jandro L. Abot

2011 *Undergraduate in progress in Electrical Engineering*
Federal University of Campina Grande – UFCG, Brazil
Advisor: PhD Marcelo Sampaio de Alencar

2007 – 2010 *Technical Degree in Informatics*
Federal Institute of Education, Science and Technology of Paraíba – IFPB, Brazil
Advisor: MSc Carlos Danilo Miranda Regis

2 Professional Experience

2017 – Current *Data Analysis Intern at Kepler/K2 Guest Observer Office*
NASA Ames Research Center
Mentor: Geert Barentsen

Summer 2016 *Software Developer at 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 – UFCG, Brazil

Fall 2015 – 2016 *Undergraduate Research Assistant*
Institute for Advanced Studies in Communications – Iecom, Brazil
Mentor: Marcelo Sampaio Alencar

Summer 2015 *Undergraduate Guest Researcher*
National Institute of Standards and Technology – NIST, 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 – Iecom, Brazil
Mentor: Marcelo Sampaio Alencar

2009 – 2010 *High-school Reasearch Assistant*
Federal Institute of Education, Science and Technology of Paraíba – IFPB
Mentor: Carlos Danilo Miranda Regis

3 Projects

May 2016 – August 2016 *Point spread function photometry for fitting overlapping stars simultaneously* – **The Astropy Project**

2016 – 2016 *Statistical characterization of free space optical channels* – **Iecom**

2015 – 2016 *Signal detection in generalized fading channels* – **Iecom**

May 2015 – August 2015 *Parameter estimation for photoactivated localization microscopy (PALM)* – **NIST**

2013 – 2014 *Multiplatform software for objective stereoscopic image and video quality assessment* – **Iecom**

2012 – 2013 *Stereoscopic video quality estimation using objective algorithms* – **Iecom**

2012 – 2012 *Development of a novel objective algorithm for video quality assessment* – **Iecom**

2009 – 2010 *Reuse of obsolete computer hardware for digital and social inclusion* – **IFPB**

4 Publications

See `https://mirca.github.io/publications`

5 Competencies

Software development: Python (numpy, scipy, pandas, scikit-learn), git/GitHub, C/C++, MATLAB, Java, R, LaTeX, Unix shell, MATLAB, C# (basic), Mathematica (basic)

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

Languages: Native Portuguese, Fluent English

6 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, 2016
4. Travel Grant Recipient, Antennas and Propagation Symposium, IEEE, 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

7 Additional Information

- Participated in the IEEEXtreme 24-Hours Programming Competition in 2013, 2014, 2015, and 2016.
- Student of the week on the IEEE Students Facebook webpage