José (Zé) Vinícius de Miranda Cardoso

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http://mirca.github.io

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, 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 – 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, 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

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, 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

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

- Attended NASA Ames Machine Learning Workshop, 2017.