Manuel Pichardo Marcano

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Education

- *Joint European Master Degree in Space Science & Technology*
  M.S., Space and Science Technology, Luleå tekniska universitet (2014 - 2016)
  M.S., Astrophysics, Université Paul Sabatier Toulouse III (2014 - 2016)
- *Bachelor of Science, Physics*
  Utah State University (2014)

Research Experience

- Summer 2015: *Summer Project, Institute for Gravitational Research,* University of Glasgow.
  Worked with Dr. Martin Hendry in a project developing a graphical user interface for gravitational wave data analysis. `https://github.com/manuelmarcano22/aLIGO-wxPython`
- 2013-2014: *Undergraduate Researcher, Utah State University,* Astrophysics Group.
  Worked with Dr. Shane Larson and Dr. Jeff Hazboun in a project establishing a limit in the mass of the graviton using Pulsar Timing Arrays. `http://arxiv.org/abs/1311.3153`
- Summer 2013: *Undergraduate Researcher, National Center for Atmospheric Research*
  Worked with Dr. Scott McIntosh on project using observations of the Solar Dynamics Observatory (SDO) spacecraft (especially the Helioseismic and Magnetic Imager - SDO/HMI) to study the evolution of the photospheric magnetic field in the build up to the most powerful solar flares and CMEs of the current solar cycle.
- Summer 2012: *Undergraduate Researcher, Stanford University*, Geophysics Dep.
  Worked with Dr. Howard Zebker and Dr. Lin Liu on project to try to use the remote sensing technique called InSAR (Interferometric Synthetic Aperture Radar) to study the hydrodynamics of two interconnected lakes in the Dominican Republic.

Publications & Preprints

Papers

- *Limiting alternative theories of gravity using gravitational wave observations*
  Jeffrey S. Hazboun, Manuel Pichardo Marcano and Shane L. Larson; preprint `arxiv/1311.3153`

Talks and Posters

- *"Big Flare Hunting"*
  Poster. Summer Program in Solar and Space Physics. Boulder, CO. 2013
- *"Measuring Water Level Fluctuations of Two Connected Wetlands in the Dominican Republic Using InSAR"*
  Poster. SHPE National Conference. Dallas, TX. 2012
- *"Measuring Water Level Fluctuations of Two Connected Wetlands in the Dominican Republic Using InSAR"* Talk. USU Physics Department Colloquium. 2012

Teaching Experience

- *Undergraduate Teaching Fellow.* PHYS 2215: Physics for Scientists and Engineers Lab I - Utah State, Fall 2013.

Recognitions & Leadership Experiences

- Erasmus Mundus Scholarship: 2-year scholarship awarded by the European Commission
- Presidential Scholarship: Full 4-year scholarship awarded by the Dominican Government
- Member: *Sigma Pi Sigma*, The Physics Honor Society
- Vice-President: *Society of Hispanic Professional Engineers.* 2011-2012
- Outreach Coordinator: *Society of Hispanic Professional Engineers.* 2012-2013
- Lawrence R. and Abeline Megill Scholarship: *USU Physics Department*

Technical Skills

- *Operating Systems*: Linux, OS X, Windows
- *Programming*: Proficient with Python and Mathematica. Some experience with Fortran, shell (bash) and Matlab scripting
- *Software*: Experienced working with Mathematica and LaTeX. Some experience with Matlab and version control (git)

Languages

- *Spanish*: Native Language
- *English*: Excellent knowledge
- *French*: Intermediate knowledge

References

Dr. Martin Hendry
Head of School
Professor of Gravitational Astrophysics and Cosmology
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Dr. Shane Larson
Research Associate Professor
Center for Interdisciplinary Exploration
and Research in Astrophysics
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