



# Paula Sarkis

## Education

- Sep - Nov 2016 **Internship**, *Max Planck Institute for Astronomy*, Heidelberg, Germany.
- 2012 - 2015 **M.S. in Astrophysics**, *Joint program at Notre Dame University and Université Saint-Joseph*, Lebanon.
- 2012 **Prerequisite Courses**, *Notre Dame University*, Louaize, Lebanon.  
Statistical and Thermal Physics, Analytical Mechanics, Partial Differential Equations, Quantum Mechanics
- 2008 - 2012 **B.S. in Statistics**, *Lebanese University*, Fanar, Lebanon.

## M.S. Thesis

- Title *Revising the Transit Depth - Metallicity Correlation of Kepler's Giant Planets*
- Supervisor Associate Professor Cyrine Nehme
- Description I developed a Hierarchical Bayesian Model to study the effect of stellar metallicity on the transit depth and to interpret a correlation, if any, between the metallicity and the radii of giant candidates/confirmed exoplanets. I accounted for false positives, selection effects, and biases present in the *Kepler* survey.

## Conferences and Summer Schools Attended

- 2015 **Sagan Exoplanet Summer Workshop: Exoplanetary System Demographics: Theory and Observations**, *California Institute of Technology, Pasadena, USA*.
- 2014 **MEARIM III: The Third Middle-East and Africa Regional IAU Meeting**.
- 2014 **IAU MENA Regional Summer School 2014: Astronomy With Small Telescopes**, *Notre Dame University, Louaize, Lebanon*.
- 2013 **Astrostatistics Summer School**, *Vainu Bappu Observatory, Indian Institute of Astrophysics, Kavalur, The 4<sup>th</sup> IIA - PennState Astrostatistics Summer School*.

## Educational Experience

- 2012-2015 **Math Subject Analyst**, *SABIS Educational Services*, Adma, Lebanon.  
Reviewed books and discussed feedback with project manager  
Wrote exercises following the book's standards for exams
- 2007-2015 **Tutoring**, *Freelancer*.  
Taught Math, Physics, and Chemistry to students from grade 8 till grade 12

## Computer skills

C++, PYTHON, MATLAB, R, IRAF,  $\LaTeX$ , Linux, Microsoft Windows

## Languages

- Advanced **Arabic and English**
- Intermediate **French**

## Interests

- Reading
- Listening to music
- Hiking
- Rock climbing