

João Faria

Curriculum Vitæ

PERSONAL INFORMATION

Name João Pedro de Sousa Faria
Born Santarém, Portugal, 30th of May 1990
Nationality Portuguese
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EDUCATION

2012 - 2013 **Master in Astronomy,**
Faculdade de Ciências & Centro de Astrofísica (CAUP), Universidade do Porto,
Project title: *Probing inside binary stars with asteroseismology*
Supervisors: Mário J. P. F. G. Monteiro; Margarida Cunha.
Final average grade: 19/20

2008 - 2011 **Bachelor in Physics - minor in Astronomy & Astrophysics,**
Departamento de Física, Faculdade de Ciências da Universidade de Lisboa,
Study plan can be accessed [here](#);
Final average grade: 16/20.

GRANTS AND AWARDS

PhD Grant **Project ID:** CAUP-12/2013-BD (ERC-2009-StG-239953)
Title: Exoplanet Detection in Metal-Poor Stars
Supervisor: Nuno C. Santos; Pedro Figueira
Institution: Centro de Astrofísica da Universidade do Porto (CAUP)
Duration: 1 October 2013 - 30 September 2014 (12 months)

S&T Management Grant **Project ID:** CAUP-08/2013-BGCT
Supervisor: Filipe Pires
Institution: Centro de Astrofísica da Universidade do Porto (CAUP)
Duration: 1 July 2013 - 30 September 2013 (3 months)

Research Scholarship **Project ID:** PTDC/CTE-AST/098754/2008
Title: Probing Inside Binary Stars with Asteroseismology
Supervisors: Mário J. P. F. G. Monteiro; Margarida Cunha
Institution: Centro de Astrofísica da Universidade do Porto (CAUP)
Duration: 1 July 2012 - 31 December 2012 (6 months)

REFEREED PUBLICATIONS

The HARPS search for southern extra-solar planets: XXXV. The interesting case of HD41248: stellar activity, no planets?, Santos, N. C., Mortier, A., Faria, J. P. et al. 2014 (submitted)

Asteroseismic estimate of helium abundance of a solar analog binary system, Verma K., Faria, J. P., Antia H. M. et al., 2014 (submitted)

On the possibility of using seismic probes to study the core composition in pulsating white dwarfs, Faria, J. P., Monteiro M.J.P.F.G., *Astron. Nachr.* 333, 10, 954-957 (2012)

DOI 10.1002/asna.201211830

SCIENTIFIC ACTIVITIES

- | | |
|--------------------------------|---|
| MSc Dissertation | Asteroseismology of the solar-type stars 16 Cyg A and B, using data from the <i>Kepler</i> space telescope. |
| Undergraduate research project | Research project with Dr. Marco Grossi, studying the colours and metallicities of blue compact dwarf galaxies (BCD) in the Virgo Cluster. |
| Conference Posters | <ul style="list-style-type: none">• <u>Seismic diagnostics of the internal structure of 16 Cyg A and B</u>
- XXII National Astronomy and Astrophysics Meeting (Porto, September 2012)
Supervised by Doctor Mário J. P. F. G. Monteiro and Doctor Margarida S. Cunha; Masters dissertation project.• <u>Using seismic probes to study the core composition in pulsating white dwarfs</u>
- The Modern Era of Helio- and Asteroseismology (Obergurgl, Austria, May 2012)
Together with Doctor Mário J. P. F. G. Monteiro; research project for a Masters course on stellar structure and evolution.• <u>Cores e metalicidades de galáxias anãs azuis no Enxame da Virgem</u>
- XXI National Astronomy and Astrophysics Meeting (Coimbra, September 2011)
Supervised by Doctor Marco Grossi; final project of the undergraduate degree in Physics. |

SEMINARS AND TALKS

- *Acoustic Glitches in 16 Cygni*
XXIII National Astronomy and Astrophysics Meeting
18 July 2013, FCUP - Lisbon
- *Acoustic Glitches in 16 Cygni*
6th Iberian Meeting on Asteroseismology
27 May 2013, Aras de los Olmos - Spain
- *MESA - Modules for Experiments in Stellar Astrophysics*
CAUP, DFA-UP
16 January 2013, CAUP - Porto
- *Cores e Metalicidades de Galáxias Anãs Azuis no Enxame da Virgem*
CAAUL, DF-FCUL
13 July 2011, CAAUL - Lisbon

SCIENTIFIC INTERESTS

- Stellar Evolution; Stellar Convection and Modelling
- Exoplanets and host-stars
- Computational Astrophysics
- Star Formation

CONFERENCES AND WORKSHOPS

- XXIII National Astronomy and Astrophysics Meeting
18-19 July 2013, Lisbon, Portugal
- 6th Iberian Meeting on Asteroseismology
27-29 May 2013, Aras de los Olmos (Valencia), Spain
- XXII National Astronomy and Astrophysics Meeting
23-25 September 2012, Porto, Portugal

- The Modern Era of Helio- and Asteroseismology
20-25 May 2012, Universitätszentrum Obergurgl, Austria
- XXI National Astronomy and Astrophysics Meeting
7-10 September 2011, Coimbra, Portugal
- ALMA National Community Day
27 April 2011, CAAUL - Lisbon
- Joint European and National Astronomy Meeting (JENAM 2010)
6-10 September 2010, FCUL - Lisbon

OUTREACH

June 2013 -	Collaborator of Outreach Unit <i>Centro de Astrofísica da Universidade do Porto</i>
2010 - 2011	Co-organizer of monthly activity " Noites no Observatório " <i>Observatório Astronómico de Lisboa</i>
2010 - 2011	Co-organizer of public outreach activities <i>Observatório Astronómico de Lisboa</i>
Summer 2010/2011	Monitor of the program " Ciência Viva no Verão " <i>Observatório Astronómico de Lisboa</i>
Amateur Observations	Coordinated and participated in many workshops about observation and general use of amateur telescopes on the Astronomical Observatory of Lisbon. These include night sky recognition, telescope alignment and CCD astrophotography.

LANGUAGE SKILLS

Portuguese	Native language
English	Fluent - written and spoken
French	Basic
Spanish	Basic

COMPUTER SKILLS

OS	Linux, Microsoft Windows
Programming	Fortran, C, Python, MATLAB, R, Awk (proficient) Mathematica, IDL (basic)
Office	TEX (L ^A T _E X, BibTeX) , Microsoft Office, OpenOffice
Software	<ul style="list-style-type: none"> • Image Edition: Photoshop, GIMP • Database: TopCat • Plotting: Gnuplot, TopCat
Specific	Knowledge of the IRAF environment, PyRAF; Basic knowledge of ESO's GASGANO pipeline; Presented results with the MESA stellar evolution code.
Data Acquisition	SDSS (Sky Server/CasJobs), Nasa Extragalactic Database, ESO Archive

UPDATED

March 18, 2014