

# Filipe Pereira

Curriculum Vitæ

filipe.pereira@astro.up.pt

## EDUCATION

**Faculdade de Ciências da Universidade do Porto**, Porto, Portugal

- M.Sc. in Astronomy Oct 2014 – Oct 2016
  - Thesis: Development of automatic tools for measuring acoustic glitches in seismic data of solar-type stars
  - Supervisor: Professor Mário João Monteiro
  - Research areas: Asteroseismology, acoustic glitches, Fortran
- Bachelor's Degree in Astronomy Sep 2011 – Sep 2014

## RESEARCH EXPERIENCE

**Faculdade de Ciências da Universidade do Porto**, Porto, Portugal

- Undergraduate Research Project Feb 2014 – Jul 2014
  - Project: Study of the minimization function in the ARES+MOOG procedure
  - Supervisor: Dr. Sérgio Sousa
  - Research areas: Spectroscopic Parameters, iron line abundances, Python
- PEEC (Extra-Curricular Research Project) Oct 2013 – Jul 2015
  - Project: Testing the applicability of using titanium line abundances to determine spectroscopic stellar parameters, especially surface gravity, using the ARES and MOOG tools
  - Supervisor: Dr. Sérgio Sousa
  - Research areas: Spectroscopic Parameters, titanium line abundances, Python

## PUBLICATIONS

### CONFERENCES

1. Pereira L.F.R., Faria J.P.S., and Monteiro M.J.P.F.G., 2016, SIGS - Seismic Inferences for Glitches in Stars, in *Seismology of the Sun and the Distant Stars 2016*, submitted.

## GRANTS

Development of automatic tools for measuring acoustic glitches in seismic data of solar-type stars Oct 2015 – Jun 2016

- Project: SPACEINN (FP7-SPACE-2012-312844)
- Supervisor: Mário João Monteiro
- Institution: Centro de Astrofísica da Universidade do Porto (CAUP)
- Grant: ~7000 EUR

Characterizing and modelling red giants

Jan 2017 – Dec 2017

- Project: CIAAUP-09/2016-BI
- Supervisor: Margarida Cunha
- Institution: Centro de Astrofísica da Universidade do Porto (CAUP)
- Grant: ~12000 EUR

## SCIENTIFIC ACTIVITIES

**Seismology of the Sun and the Distant Stars 2016, Joint TASC2 & KASC9 Workshop – SPACEINN & HELAS8 Conference**, Azores, Portugal Jul 2016

- Poster presentation describing some of the results of the research for the M.Sc. dissertation.

**IVth Azores International Advanced School in Space Sciences**, Azores, Portugal

Jul 2016

- Participant in the Summer School and member of the Local Organising Committee.

**1st TESS Data for Asteroseismology workshop - T'DA 1**, Birmingham, England

Oct 2016

- Participant in the workshop.

**2nd TESS Data for Asteroseismology workshop - T'DA 2**, Aarhus, Denmark

Apr 2017

- Will participate in the workshop.

## SCIENTIFIC AFFILIATIONS

**Sociedade Portuguesa de Astronomia**, Portugal

- Member

2012 – Present

## LANGUAGES

- Portuguese: Native language.
- English: Fluent (speaking, reading, writing), C1 Level.
- Spanish: Intermediate (reading, speaking); basic (writing).

## COMPUTER SKILLS

- Basic Knowledge: Java, MySQL, C, Linux, R
- Intermediate Knowledge:  $\LaTeX$ , Python, MATLAB, Fortran

## INTERESTS

Computer Science, Cinema, Basketball, Volleyball

