

## Supervised Practice of Teaching and Research in Astronomy

AST732 – Doctoral Program in Astronomy

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## Jason J. Neal

Institute of Astrophysics and Space Sciences

Faculty of Sciences, University of Porto

Fundação para a Ciência e a Tecnologia

PhD:Space network doctoral fellowship (PD/00040/2012)

Reference: PD/BD/52700/2014.

## Publications

- 60 P. Figueira, V. Zh. Adibekyan, M. Oshagh, **J. J. Neal**, B. Rojas-Ayala, C. Lovis, C. Melo, F. Pepe, N. C. Santos, M. Tsantaki *Radial velocity information content of M dwarf spectra in the near-infrared* Astronomy and Astrophysics (2016).

**contribution:** Software Validation; Writing - Review & Editing;

## Communications

- 30 **Towards exoplanetary atmospheres: new data reduction techniques for the nIR**  
National conference talk – XXVI Encontro Nacional de Astronomia e Astrofísica (ENAA), 9 Sept. 2016, Aveiro, Portugal
- 20 **Towards Exoplanet Atmospheres: new data reduction for the nIR**  
Poster at an international school – IVth Azores International Advanced School in Space Sciences, 17-27 July 2016, Horta, Faial, Azores Islands, Portugal
- 20 **Towards Exoplanet Atmospheres: new data reduction for the nIR**  
Poster at a national conference – XXVI Encontro Nacional de Astronomia e Astrofísica (ENAA), 8-9 Sept. 2016, Aveiro, Portugal
- 20 **Energetic Electron Precipitation into the Atmosphere. Determining the access region and fluxes**  
Cookie seminar, Porto, 26 Nov. 2014

## Other activities

### 50 Astronomical Observations

In February 2017 I performed three nights of HARPS-N observations at the Telescopio Nazionale Galileo (TNG), La Palma, Spain, alone. These observations were to fill in the phase curve of previously detected low-mass exoplanets to further constrain their masses.

30 **Organization of internal meeting 2-DEMOC 2017 - Exoplanet Thematic Line Internal Meeting**

I was part of the organizing committee for the team meeting in 2017. I helped choose the location and activities as well as in charge of the team building games. Unfortunately, I could not attend the meeting to participate and lead the games I had arranged.

20 **Proofreading *Astro Homus***

In 2015 I was part of the proofreading team for an outreach/artistic book, *Astro Homus*, a Directorate-General of Arts-funded project. This involved proofreading the English version of the book, mainly for mistranslations. (<http://astrohomus.astro.up.pt>).

20 **Teaching/Monitoring *Escola de Verão de Física***

In 2015 and 2016 I was a monitor for the “Escola de Verão de Física”. This involved teaching and supervising 4-5 secondary school students to perform a set task in astronomy during the week. The topic I monitored involved detecting and characterizing exoplanets using the radial velocity and transit methods. I am scheduled to monitor again this year and in full disclosure I was paid for this work.

## Participation in conferences and schools

30 **International conference - *Towards Other Earths II: The Star-Planet Connection***, 15-19 Sept. 2014, Porto, Portugal

30 **Advanced School - *I Vietri Advanced School on Exoplanetary Science***, 25-29 May 2015, Vietri sul Mare, Italy

30 **Advanced School - *IVth Azores International Advanced School in Space Sciences***, 2016, Horta, Faial, Azores Islands, Portugal

- **National Conference - *XXVI Encontro Nacional de Astronomia e Astrofísica (ENAA)***, 9 Sept. 2016, Aveiro, Portugal

**Internal Workshops - *Institute of Astrophysics and Space Sciences Internal Workshops***

- *IA-ON*, 17 June 2014, Porto, Portugal
- *IA-ON2*, 12-13 Nov. 2015, Lisbon, Portugal
- *IA-ON3*, 13-14 Oct. 2016, Porto, Portugal

## Presentations at Journal Clubs

20 **Planet Journal clubs**

- Discovery and spectroscopy of the young jovian planet 51 Eri b with the Gemini Planet Imager by Macintosh et al., 27 Nov. 2015
- Rotation and winds of exoplanet HD 189733 b measured with high-dispersion transmission spectroscopy by Brogi et al., 19 Feb. 2016

20 **Programmer’s Club *Programming ”Journal Club”*** at CAUP about programming for astronomers.

- PyAstronomy, 30 April 2015
- Joblib, parallel computing, 27 May 2016
- Linting, testing and CI, 27 April 2017

## Balance

Balance of points collected here.

0 ISI article (as 1st author or with a maximum of 3 coauthors)	0 pt.
1 ISI article with more than 3 coauthors (not being the 1st author) ( $1 \times 60$ pt)	60 pt.
1 participation in an advanced training course (minimum 10 hours) ( $1 \times 50$ pt)	50 pt.
0 Presentations of an oral communication at an international event	0 pt.
0 Articles in proceedings as 1st author	0 pt.
3 Participation in international events ( $3 \times 30$ pt)	90 pt.
1 Presentation of a seminar or an oral contribution at a national event ( $1 \times 30$ pt)	30 pt.
0 Articles in proceedings (not as the 1st author)	0 pt.
1 Participation in the organization of events ( $1 \times 30$ pt)	30 pt.
2 Poster presentations at an international event ( $2 \times 20$ pt)	40 pt.
2 Outreach activities ( $2 \times 20$ pt)	40 pt.
3 Collaboration in teaching activities and student tutorials ( $3 \times 20$ pt)	60 pt.
4 National meeting participation.	?? pt.

Number of tasks: 18

Total number of points: **400 pt.**