

isabelle.boisse@lam.fr  
born on: 28/06/1982 at Talence (France)  
3 childs (11, 8 and 1 yrs-oldh)

**Isabelle Boisse**  
Assistant Astronomer  
Laboratoire d'Astrophysique de Marseille and OHP

## RESEARCH INTERESTS

**Extrasolar planets:** detection, characterisation of peculiar objects

**Stellar activity** (chromospheric, photospheric): observation, simulation, in spectroscopy and photometry

**High-resolution spectroscopy:** observation, instrumentation, data analysis

## WORK EXPERIENCE

2014 - ... : **Astronome-Adjoint** (perm. position) at LAM, France

2010 - 2013 : **Post-doctorat** with N.C. Santos at the Centro de Astrofisica da Universidade do Porto (CAUP), Portugal

2007 - 2010 : **PhD thesis** : *Doppler spectroscopy diagnostics for research and characterization of exoplanets* with Pr. Bouchy F. and Pr. Hébrard G., at the Institut d'Astrophysique de Paris (IAP), France

**Teaching assistant** (practical work and tutorial) in physics to L1 and L2 students at University Pierre & Marie Curie, Paris, France, 64 hours/year (3 years)

## PUBLICATIONS, COMMUNICATIONS & REFEREE ACTIVITIES

- Refereed papers in international journals: 150 papers published which 7 first-author papers
- Citations in published refereed papers in ADS : H-index: 41; average citation per paper: 75 on the first author papers
- 17 oral presentations in international refereed conferences with 6 invited
- Panelist for the NSF (USA), ISF (Isr.), Czech Science Fund and french Universities.
- Panelist for the FTAC and LPTAC for CFHT 2018-2022, ESO panelist in P98, P99, P100, P107
- Referee for A&A, ApJ, AJ, MNRAS, PASP

## MANAGEMENT & PROJECTS, COLLABORATIONS

- 2022 -.. : Member of the scientific team of the spatial project nuANCESTOR
- 2016-... : PI of the Consortium SOPHIE
- 2016-... : PI, instrument scientist and management of the SOPHIE-red project
- 2014-... : French representative at the Executive board of ANDES@ELT
- 2012-2017 : Instrument scientist for SPIRou calibration unit (deputy then responsible)
- 2010-... : Local responsible of SPIRou nIR spectropolarimeter
- 2018-2024 : Scientific team member for NIRPS spectrograph (3.6m,LaSilla, ESO)

## PRIZES & GRANTS

- 2025-2029 : 185 ke local responsible ANR ORVET
- 2022 : 108 ke from PACA for ANDES@ELT material
- 2018-2023 : 150 ke local responsible ANR SPLASH
- 2018-2021 and 2024-2027 : PEDR (4keuros / yr)
- 2019 - now : 10 ke /yr for ANDES french team
- 2014 - now : 8ke each yr for exoplanet RV team
- 2018-2019 : 22 and 23keuros from CNRS for SOPHIE hardware improvements
- 2015 : co-PI of the 225 keuros from the A\*MIDEX fondation for SPIRou hardware
- 2014-2015 : 8 keuros from Bourse Campus France PHC-Pessoa
- 2014 : 9 keuros from LAM to buy equipment for SPIRou
- 2014 : 2 keuros research grant from the city of Marseille

## ADMINISTRATIVE & ORGANIZATION ACTIVITIES

- Chair of the LOC and SOC member of the international conference OHP 2025: 51 Peg b 30th birthday : cool giants and their systems
- Member of the Scientific Advisory Committee (SAC) of the CFHT 2023 - 2027
- Membre of the University National Council (CNU) section 34 2018 - 2026
- Membre of Comité Transverse Exoplanète (CET) 2021 - 2024 - Co-responsible 2023-2024
- Member of CS to organize french scientific meetings : HIRES (2020), SF2A-ELT (2021), ExoELT (2022), PNP colloquium (2022), Exosystemes IV (2024) - Chair of the LOC and SOC member of the international conference OHP 2020: Planets of red dwarf stars cancelled due to COVID
- Co-organizer of an EWASS 2019 symposia <https://eas.unige.ch//EWASS2019/session.jsp?id=S9>
- Membre of Scientific Council of OSU-Pythéas 2017-2023
- Membre of Scientific Council of 1.93m telescope at OHP since 2017
- Membre of Scientific Council of LAM 2016-2019 and since 2023
- Membre of Scientific Council of the Programme National de Planétologie (PNP) since 2014
- Membre of the SOC of the EPRV 4 international conference - 2019
- Membre of the SOC of the SPIRou Science Meeting 2016
- Chair of the SOC and LOC member of the international conference OHP 2015: Twenty years of giant exoplanets
- Co-organizer the splinter session "Portraying the Hosts" Cool Stars 18, Flagstaff, USA 2014 <https://sites.google.com/site/cstars18/>
- Membre of the Scientific Council at CAUP 2010-2013
- Organizer of Planet Journal Club at CAUP 2010-2013
- Organizer of a Workshop on Dynamics of extrasolar planets at CAUP in 2011 <http://www.astro.up.pt/investigacao/conf2011/>
- Membre of the Administrative Council of OSU-IAP 2008-2010 (PhD representative at IAP)
- Membre of the Laboratory Council at IAP 2008-2009 (PhD representative at IAP)

## SUPERVISION & TEACHING

2014 - now : Teaching 66h/yr licence and master

- 2025-2028 : Co-supervision with Jean-Luc Beuzit of the PhD student, Loula-Grenier-Frassati *Optimal extraction of information from near-infrared extension of SOPHIE* at OHP-LAM
- 2019-2023 : Supervision of the PhD student, Pia Cortes *Improve exoplanet detection and characterization around low-mass stars with SOPHIE and SPIRou spectrographs* at LAM
- 2019-2022 : Supervision of the PhD student, Neda Heidari *Overcoming the stellar activity impact on exoplanet detection and characterization : application to the followup of TESS candidates with the SOPHIE spectrograph* at LAM
- 2016-2019 : Co-supervision with F. Bouchy of the PhD student, Melissa Hobson *Exoplanet detection around M dwarfs with near infrared and visible spectroscopy* at LAM
- 2014-2024 : Each year Master and Graduate trainings (L3, M1, M2 from 2 to 5 months) (20 students)
- 2011-2013 : Contribute to supervise PhD students from the exoplanet team at CAUP

## OBSERVING TIME ALLOCATED

- PI : around 100 nights per year for High-precision programs on SOPHIE spectrograph
- PI : CHEOPS, HARPS, UVES, NARVAL open proposal
- co-I on many instruments and proposals : large programs SPIRou, CHEOPS, SOPHIE, NIRPS,...

## OUTREACH ACTIVITIES

- co-PI of two ERASMUS+ projects to introduce science through astronomy to young kids (2017-2023)
- several interventions on classrooms with kids, during festival (Fête de la Science, Space Bus,...)
- numerous interventions with journalists to explain articles (newspaper, radio, tv)
- participation to a documentary on women working in science
- participation at the colloquium AstroEDU (<https://astroedu-fr.sciencesconf.org/> and to the book <https://hal.archives-ouvertes.fr/hal-03481844> p.424-429)