



Salomé Grouffal

3rd year PhD student - Exoplanets

Marseille, France



EDUCATION

- 2022 - 2025 **Ph.D. in Astrophysics: Characterisation of exoplanets in the habitable zone**
Laboratoire d'Astrophysique de Marseille (LAM), France
CNES – Institut Origines AMU
Supervisor: Alexandre Santerne
- 2020 - 2022 **Master in fundamental physics specialized in astrophysics**
Aix-Marseille University, France
Highest Honors
2nd year master internship: Characterisation of exoplanets in the habitable zone
Laboratoire d'Astrophysique de Marseille – Dr. A. Santerne
1st year master internship: False positive in the exoplanet detection with the transit method
Laboratoire d'Astrophysique de Marseille – Dr. S. Sulis – Pr. M. Deleuil
- 2019 - 2020 **Erasmus exchange at Stockholm University:**
Stockholm University, Sweden
Astrophysics and theoretical physics department
- 2017 - 2020 **International Bachelor in Fundamental Physics**
Bordeaux University, France
Honors

PUBLICATIONS – PROPOSALS

- 2024 **S. Grouffal**, A. Santerne, N.C.Hara, I.Boisse, S.Coez, N.Heidari, S.Sulis A&A 687, A148
An improved correction of radial velocity systematics with the SOPHIE spectrograph
- 2022 **S. Grouffal**, A. Santerne, V. Bourrier et al. A&A 668, A172
Rossiter-McLaughlin detection of the 9-month period transiting planet HIP41378d
- 2024 S. Sulis, L.Borsato, **S.Grouffal**, et al. A&A 686, L18
HIP41378 observed by CHEOPS: Where is planet d?
- 2022 J. Lillo-Box et al. (**incl S. Grouffal**) A&A 667, A102
The KOBE experiment: K-dwarfs Orbitd By habitable Exoplanets. Project goals, target selection and stellar characterization
- 2022 M. K. Alam et al. (**incl S. Grouffal**) APJL 927, L5
The First Near-Infrared Transmission Spectrum of HIP 41378 f, a Low-Mass Temperate Jovian World in a Multi-Planet System
- 2023 **PI** of accepted proposal on **CHEOPS**
Hunting a second transit of the long-period Neptune exoplanet HIP41378 e in the gaps of TESS – 300 orbits

TEACHING

- May 2024 Tutor of two **M1 internship students**
- Solane Olocco: Transit Timing Variations for long-period exoplanets
- Loula Grenier: Study of radial-velocity data from the SOPHIE spectrograph
- 2023 - 2024 Tutor for **Scientific Watch project** on long-period exoplanets – Master 1 physics



PERSONAL INFORMATION

BIRTH DATE

March, 07th 1999

NATIONALITY

French

CONTACT DETAILS

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LANGUAGES

FRENCH native

ENGLISH fluent

DEUTSCH Intermediate



SCHOOLS – MEETING – CONFERENCE

July 2024	Exoplanets Seminars of the Institute of Astrophysics Paris, France – Invited seminar
June 2024	Exoplanets 5 Leiden, Netherland - Poster
May 2024	PLATO conference Catania, Italy - Talk
March 2024	PLATO Stellar Variability Working Group meeting Oxford, UK - Talk
March 2024	RED astrobiology school Le Teich, France
Janv. 2024	Exosystèmes 4 Lyon, France - Talk
Nov. 2023	PLATO GOP meeting LOC - Marseille, France
Jun. 2023	SF2A 2023 Strasbourg, France - Poster
May. 2023	The 4th Advanced School on Exoplanetary Science: Astrophysics of transiting planets Vietri Sul Mare, Italy - Poster
March. 2023	EPRV 5 - Virtual
Jun. 2022	SF2A 2022 Grenoble, France - Talk

NUMERICAL EXPERTISE

Numerical tools: Python, Fortran 90, latex

Operating systems: Windows, Linux, OS

ASTRONOMICAL OBSERVATIONS

HARPS - 3.6 m telescope – La Silla Observatory

SOPHIE - 1.93 m telescope - OHP

OUTREACH and ACADEMIC RESPONSABILITIES

2022 - 2024	LAM seminars organisation Weekly seminars of the lab for the Planetary System Team
2022 - 2024	Researcher in classroom Presentation for high schools and activities on exoplanets
	Tutor for 'Research Apprentices' Tutor for high school students during one academic year in the laboratory. Project on the concept of habitability in the Universe
	Lecture on exoplanets for high school internship students
	Member of 'Astrogirls' A project led by Dr. Laure Ciesla to promote astronomy for young girls
	Active participation in science outreach events: Fête de la science, festival d'astronomie de Marseille, Souk des Sciences, astronomical observation for various publics...