## Khaled Al Moulla

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ORCiD	0000-0002-3212-5778		1290 Versoix, Switzerland
	Education		
2020 – 2024	<b>PhD in Astrophysics</b> , University of Geneva, Switzerland Thesis: Solar-Type Activity in Optical and Near-Infrared Radial Velocities Supervisor: Prof. Xavier Dumusque		
2018 – 2020	MSc in Physics: Astronomy, Uppsala University, Sweden Thesis: Advanced Characterization of Exoplanet Host Stars Supervisor: Prof. Nikolai Piskunov		
2015 – 2018	<b>BSc in Physics: Astronomy</b> , Uppsala University, Sweden Thesis: Turbulence at MHD and Sub-Ion Scales in the Magnetosheath of Saturn Supervisor: Dr. Lina Hadid		
	Instrumentation		
	Consortia		
	Keck Planet Finder (KPF), Member of Science Team		
Since 2023	Near-InfraRed Planet Searcher (NIRPS), Member of Science Team		
2022	Proposals	C   T	\/I.T. T' 00.01
2022	<b>ESO P111 Proposal 111.252R</b> ,	Co-I, Teles	cope: VLI, Time: 33.3 h
2021 2022	Observations Suice Fular 1 2m Talagana 42	niahta	
2021 – 2022	Swiss Euler 1.2m Telescope, 42	nignts	
	Teaching		
	Courses		
2023 – 2024	Astrophysics and Data Science, University of Geneva, Master's Level (	_	Assistant
	Students		
2023 – 2024	<b>Romain Eltschinger</b> , Co-Supervise Thesis: Synthetic Periodograms for the		-
2023	<b>Fabrice Reymond</b> , Supervisor of E Project: Studying Solar Activity to Er		· · · · · · · · · · · · · · · · · · ·
	Service		
2023	<b>JUnior Researchers' Assembly (JURA) IV</b> , Member of SOC/LOC Participants: 47, Budget: CHF $32,000 \approx \text{USD } 35,000$		
Since 2022	DEI Group, Geneva Observator	<b>y</b> , Member	of Committee

## Scholarships

2020 **F. O. Törnlund Foundation**, SEK 26,000  $\approx$  USD 3,000

2018 – 2019 A. & A. Löfberg Foundation, SEK  $100,000 \approx \text{USD } 11,000$ 

## Presentations

Talks 5 conferences, 3 science meetings, 1 invited seminar, 5 campus seminars.

Posters 2 conferences, 2 science meetings.

Conferences

2023 **EPRV 5**, Hilton Beachfront Resort, Santa Barbara, US Formation Temperature-Dependent Stellar Activity RVs Across Spectral Types

**Sun-as-a-Star Workshop**, Flatiron Institute, New York City, US Which Spectral Segments are Optimal for Radial Velocity Extraction?

PoET Workshop, CAUP, Porto, PT

Understanding the Physics of Stellar Activity at the Spectral Level

2022 JURA III, Hotel Meielisalp, Leissigen, CH Stellar Activity Indicators with Solar Observations GPRV Workshop, All Souls College, Oxford, UK

Radial Velocity Dependence on Line Formation Temperature

Science Meetings

- 2023 **NIRPS Science Team Meeting**, University of Montreal, Montreal, CA HELIOS-NIRPS Initial Results
- 2022 EPRV RCN Meeting, Online

Stellar Signal Components seen in HARPS and HARPS-N Solar RVs

NCCR PlanetS Domain 2 Meeting, Online

Radial Velocity Dependence on Line Formation Temperature

Invited Seminars

2023 **Astrophysics Group**, Weizmann Institute of Science, Rehovot, IL Introducing ARVE: Analyzing Radial Velocity Elements

## ——— Publications

A complete list is available on my ADS Public Library.

First Author

2023 Al Moulla, K., Dumusque, X., & Cretignier, M. 2023, submitted to A&A Stellar activity correlation with line formation temperature

Al Moulla, K., Dumusque, X., Figueira, P., et al. 2023, A&A, 669, A39

2022 Al Moulla, K., Dumusque, X., Cretignier, M., et al. 2022, A&A, 664, A34 Dependence of stellar activity signal on line formation temperature

Stellar signal components seen in HARPS and HARPS-N solar radial velocities

Coauthor

2023 Zhao, L. L., Dumusque, X., Ford, E. B., et al. 2023, AJ, 166, 173 Combining Solar Data from HARPS, HARPS-N, EXPRES, and NEID