

Alexis Lavail

Thunberg fellow

Uppsala University & the Swedish Collegium for Advanced Study

+ Contact information

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+ Research experience

since 2020 **Thunberg fellow** at Uppsala University and the Swedish Collegium for Advanced Study
2013 – 2020 **PhD student** in astronomy at Uppsala University. 1-year studentship at ESO
2013 **ESA Stagiaire** at European Space Agency ESTEC

+ Research interests

2013 - **Stellar magnetic fields**
2013 - **Instrumentation**: e.g CRIRES+, HIRES
2020 - **High-resolution spectroscopy** of transiting exoplanets

+ Skills

Observing High-resolution spectroscopy and spectropolarimetry
Visitor mode: CRIRES+@VLT, GIANO-B@TNG, FIES@NOT
Service mode: ESPaDOnS@CFHT
Data analysis Reduction of high-resolution intensity/polarized spectra, telluric lines modelling and removal, spectrum synthesis, stellar parameter inference
Programming Python, IDL/GDL, bash
Other software LaTeX, HTML5, CSS3, git

+ Education

2020 Ph.D in astronomy at Uppsala University. Thesis title: *Magnetic fields of cool stars from near-infrared spectropolarimetry*
2013 Master degree in astronomical and space-based engineering at Observatoire de Paris
2011 Bachelor degree in physics, Université Aix-Marseille-3 Paul Cézanne

+ Languages

French: native **English:** fluent **Swedish:** pretty good **Spanish:** conversational

+ Grants & stipends

- 2020, **15 000 SEK** Liljewalch resestip from C.F. Liljewalchs stipendiestiftelse.
- 2018, **30 000 SEK** General announcement for Astronomy and space science from KVA (the Royal Swedish Academy of Sciences).
- 2018, **38 000 SEK** Liljewalch resestip from C.F. Liljewalchs stipendiestiftelse.
- 2017, **3 000 €** ESO Director General Discretionary Funding (**PI: Gaitee Hussain**).
- 2015, **18 000 €** 1-year PhD studentship at the European Southern Observatory

+ Service & duties

Conference organization

- 2020 [Rencontres OSAE 2020](#), co-organizer.
- 2019 [Uppsala/Stockholm astronomy PhD workshop](#), main organizer.
- 2016 [Cool Stars 19](#), co-main organizer.
- 2016 [Rencontres OSAE 2016](#), co-main organizer
- 2015 Astronomdagarna 2015, co-organizer

Duties & outreach

- 2016-present Design of [printed & online posters](#) for outreach astronomy events
- 2014-2018 Responsible for the [astronomy division website](#) at Uppsala University
- 2015-2017 PhD representative at the astronomy division council at Uppsala University

+ Recent presentations

More presentations and seminars at aalex.is/presentations

- Apr 2021 Poster presentation at the 2021 STScI spring symposium
- Apr 2021 Contributed talk at the Bcool 2021 conference
- Mar 2021 Poster presentation at Cool Stars 20.5
- Oct 2020 Contributed talk at the launch of the Thunberg Fellowship programme.
Uppsala

+ Interests & hobbies

inclusiveness, hiking, bouldering, cross-country skiing, beer-brewing, baking, gardening, climate justice, world literature and music, science-fiction, web/poster/logo design, data visualization, typography ...

+ List of publications

Refereed publications

- **Lavail, A.**, Kochukhov, O., et al., 2020, [MNRAS, 497, 632L](#)
- **Lavail, A.**, Kochukhov, O., Hussain, G., 2019, [A&A, 630, A99](#)
- **Lavail, A.**, Kochukhov, O., Wade, G. A., 2018, [MNRAS, 479, 4836L](#)
- **Lavail, A.**, Kochukhov, O., et al., 2017, [A&A, 608, A77](#)
- Kochukhov, O., **Lavail, A.**, 2017, [ApJ, 835, L4](#)

SPIE conference proceedings (CRIRES+ papers)

- Piskunov N., Stempels, E, **Lavail A.**, et al. (32 coauthors), 2018, [Proceedings of the SPIE, 10702, 1070234](#)
- Brucalassi A., et al. (37 coauthors incl. **Lavail A.**), 2018, [Proceedings of the SPIE, 10702, 1070239](#)
- Follert R., et al. (34 coauthors incl. **Lavail A.**), 2016, [Proceedings of the SPIE, 9912, 99122B](#)
- Dorn R., et al. (30 coauthors incl. **Lavail A.**), 2016, [Proceedings of the SPIE, 9908, 99080I](#)