# Ben Lakeland

#### RESEARCH FELLOW

University of Birmingham

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### Education \_\_\_\_

University of Exeter Exeter, UK

PhD in Astrophysics Sept 2020 - May 2024

- · Passed, subject to minor revisions
- · Supervisor: Prof. Tim Naylor
- Title: An investigation into the physical processes of stellar variability: from accretion outbursts to the quiet Sun.

University of Oxford Oxford, UK

MPhys in Physics Oct 2016 - June 2020

- Final grade: First Class (75 %, individual highest module of 94%)
- Supervisors: Prof. Suzanne Aigrain, Dr. Oscar Barragán & Dr. Nora Eisner
- Title: Detection of Transiting Exoplanets with the TESS Space Mission and Machine Learning
- Cross-disciplinary module in Spanish (assessed as First Class)

#### Awards

2023	Nominated to be a UK representative at the 2024 Lindau Nobel Laureate meeting, The Royal Society	
2023	Travel bursary to attend the National Astronomical Meeting, University of Exeter	£435
2023	Travel bursary to attend the Extreme Precision Radial Velocities 5 conference, CalTech	£2020
2019	Scholarship for performance in Final Honour School Examinations, Corpus Christi College, Oxford	£200
2016-2019	Two-time recipient of the William Buckland prize for performance in examinations., Corpus Christi College, Oxford	£50
2015	Top 60 in UK-wide Sixth Form Chemistry Challenge ( $\sim$ 8500 participants), University of Cambridge	

## **Selected publications**

#### A COMPREHENSIVE PUBLICATION LIST IS ATTACHED TO THIS APPLICATION

**B. Lakeland**, T. Naylor (2022), Towards an understanding of YSO variability: a multi-wavelength analysis of bursting, dipping, and symmetrically varying light curves of disc-bearing YSOs, MNRAS, 514, 2736. https://doi.org/10.1093/mnras/stac1477

**B. Lakeland** *et al.* (2024), The magnetically-quiet solar surface dominates HARPS-N solar RVs during low activity, MNRAS, 527, 7681. https://doi.org/10.48550/arXiv.2311.16076

### **Presentations**

#### **TALKS**

2023	Magnetically-inactive regions can dominate solar RVs. Invited talk., Terra Hunting Experiment Late Spring	University of
	Science meeting	Warwick, UK
2022	Comparing SDO and HARPS-N data with structure functions. Invited talk., HARPS-N solar meeting	Online
2022	Comparing SDO and HARPS-N data with structure functions. Invited talk., Terra Hunnting Experiment Late	University of Oxford,
	Autumn Science meeting	UK
2022	Exploring the variability of disc-bearing young stars., University of Exeter College of Engineering, Maths, and	University of Exeter,
	Physics conference	UK

#### **POSTERS**

JULY 30, 2024 BEN LAKELAND - CURRICULUM VITAE 1

2023	Magnetically inactive regions can dominate solar RVs., National Astronomical Meeting	Cardiff, UK
2023	Magnetically inactive regions can dominate solar RVs., Extreme Precision Radial Velocities 5	Santa Barbara, CA,
		US
2022	A measurement of YSO accretion with structure functions, Cool Stars 21	Tolouse, France
2021	Identifying TESS exoplanets with Citizen Science and Machine Learning, STFC introductory summer school	Online
Confe	erences/Workshops	
2023	Understanding and mitigating stellar activity (co-organiser), National Astronomical Meeting	Cardiff, UK
2023	Terra Hunting Experiment Late Spring Science Meeting, University of Warwick	Warwick, UK
		Santa Barbara, CA,
2023	Extreme Precision Radial Velocities 5, Hilton Beachfront Hotel	US
2022	Company of the supplied on the supplied to attend. Eletinos in attents	New York City, NY,
2023	Sun-as-a-star workshop (personally invited to attend), Flatiron institute	US
2022	Terra Hunting Experiment Late Autumn Science Meeting, University of Oxford	Oxford, UK
2022	Cool Stars 21, IRAP	Toulouse, France
2022	Gaussian Processes for Radial Velocities workshop, University of Oxford	Oxford, UK
Teach	ning and Outreach	
	ICATIONS	
	Level 1 Learning and Teaching in Higher Education,	University of Exeter
TEACHI	NG ( $\sim$ 500 HOURS)	
2020-2024 <b>First year Mathematics</b> , Module demonstrator		University of Exeter
2020-2021 First year Communication Skills, Module demonstrator		University of Exeter
2020-2024 <b>First year Physics</b> , Module demonstrator		University of Exeter
2022-2024 First year Physics, Lead demonstrator		University of Exeter
2020-202	2 <b>Physics and Mathematics tutor</b> , Personal tutor	Online
OUTREA	ACH ( $\sim$ 250 HOURS)	
2017 202	0 North West Science Centre Summer School, Undergraduate lead	Corpus Christi
2011-202	o North West Science Centre Summer Schoot, Ondergraduate lead	College, Oxford
2019	Summer School, Undergraduate lead	Pembroke College, Oxford
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# Skills\_

**Programming** Python, MatLab

Miscellaneous Linux, Shell (Bash/Zsh), ੴEX, Microsoft Office, Git.

**Soft Skills** Scientific Writing, Time Management, Teamwork, Problem-solving, Engaging Presentation.

# Languages\_

English NativeSpanish BeginnerFrench Beginner

### **Professional collaborations**.

Member of the WEAVE SCIP science team,

Member of the Terra Hunting Experiment Science Working Group,
Collaborator of the HARPS-N GTO Solar team,