

Benjamin F. Cooke

Curriculum Vitae

PERSONAL DETAILS

Birth 6 February 1995
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EDUCATION

PhD Astrophysics

2017-2021

University of Warwick

Astrophysics PhD in the field of exoplanets under the supervision of Professor Don Polacco. Research has currently produced multiple published papers in peer-reviewed journals including 5 as first-author.

MSc. Physics

2013-2017

University of Birmingham

First-class honours. Integrated masters including final year masters thesis under the supervision of Dr. Andrea Miglio & Dr. Tiago Campante.

WORK EXPERIENCE

Research fellow

2021-present

University of Warwick

Conducting novel research regarding tracking of satellites and space debris. Supported by awards from STFC CLASP and DSTL DASA.

PhD student

2017-2021

University of Warwick

Simulation, detection and characterisation of monotransits from the TESS mission. Carried out novel and independent research regarding exoplanet transits and simulations thereof. Research led to multiple first-author publications in peer-reviewed journals. Concluded with a 55,000 word thesis. Passed with no corrections.

Undergraduate problems class supervisor

2017-2019

University of Warwick, Part-time

Led independent problems classes for physics undergraduate student during autumn term. Role included preparing lesson plans, delivering content and supporting students. One academic term per year for three years.

Research studentship

Summer 2016

University of Birmingham

Novel research project under the supervision of Professor William Chaplin & Dr. Tiago Campante. Conducted independent research and presented finding on a specialised physics topic. Work resulted in contributions to, and author credits on, multiple publications in peer-reviewed journals.

SKILLS

<i>Languages</i>	English (native)
<i>Software</i>	PYTHON - 5 years
	C/C++ - 1 year
	MATLAB - 1 year
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EXTRA-CURRICULAR QUALIFICATIONS

An introduction to scientific computing with Python Undergraduate level computing course. Completed.

Critical thinking Universitas 21 course. Completed.

Maths for physicists Open University course. Completed.

APP EXP Development programme accredited by the Higher Education Academy to confer the status of Associate Fellow. Currently underway.

PUBLICATIONS

First-author only. For full publication record see <https://ui.adsabs.harvard.edu/public-libraries/3-LFNL0Qg-HByxaVQwiZQ>.

Benjamin F. Cooke, Don Pollacco, David R. Anderson et al. 2020. *Resolving period aliases for TESS monotransits recovered during the extended mission*. MNRAS, 500:5088

Benjamin F. Cooke, Don Pollacco. 2020. *SpecPhot: A Comparison of Spectroscopic and Photometric Exoplanet Follow-Up Methods*. MNRAS, 495: 734.

Benjamin F. Cooke, Don Pollacco, Y. Almleaky et al. 2020. *Two Transiting Hot Jupiters from the WASP Survey: WASP-150b and WASP-176b*. AJ, 159: 255.

Benjamin F. Cooke, Don Pollacco, Monika Lendl et al. 2020. *CHEOPS observations of TESS primary mission monotransits*. MNRAS, 494: 736.

Benjamin F. Cooke, Don Pollacco and Daniel Bayliss. 2019. *An examination of the effect of the TESS extended mission on southern hemisphere monotransits*. A&A, 631: A83.

Benjamin F. Cooke, Don Pollacco, Richard West et al. 2018. *Single site observations of TESS single transit detections*. AJ, 619: A175.

REFERENCES

Available upon request