

GEORGINA DRANSFIELD

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QUALIFICATIONS

Doctor of Philosophy: Physics & Astronomy - September 2023 - University of Birmingham

Master of Science: Astrophysics - June 2020 - University of Birmingham

Master of Arts: Science Education - December 2017 - King's College London

Postgraduate Certificate in Education (Physics) - September 2014 - King's College London

Bachelor of Science: Astrophysics - July 2013 - Queen Mary, University of London

EMPLOYMENT

Post-doctoral Researcher, University of Birmingham — 2023 - Present

Carrying out novel research in the field of detection and characterisation of exoplanets, as well as disseminating research results in the form of conference presentations and high impact publications.

Sky at Night Presenter, BBC Studios — 2023 - Present

Taking part in monthly filming activities, including interviewing contributors and consulting on scripts for voice-overs and pieces to camera.

Astronomy Lecturer, Wroxton College — 2022

Preparing and delivering a lecture course entitled 'Introduction to Astronomy' to social science and arts students, as part of a term-long lectureship. Also responsible for tutorial presentations, essay marking and exam writing/marking.

Physics Tutor, Tutor Hunt — 2020 - Present

Providing online private tuition on a self-employed basis via an agency.

Expert Examiner, Pearson Edexcel — 2017 - Present

Marking national and international standardised physics exams, at GCSE and Advanced level.

Teacher of Physics, The King's School, Worcester — 2018 - 2019

Responsible for delivering the physics curriculum to students aged 11-18, as well as pastoral care for my tutor group within the House system. Additional responsibilities include running booster sessions for senior students, coaching students for the Physics Olympiad, and supporting debating club.

Teacher of Science (Physics), Queen Elizabeth's School, Barnet — 2014 - 2018

Responsible for delivering the triple science curriculum to pupils aged 11-13, and the physics curriculum to pupils aged 14-18. Following the national curriculum re-development in 2015, I wrote a new scheme of work for GCSE Physics (14-16) and helped plan the delivery of the new practical elements of the A-Level course (16-18).

I completed my MA in Science Education during my time at QE, with a thesis on how to improve the resilience of under-achieving students in Physics. I used my research to support the development of a new curriculum for 11-13 year-olds within the school. Beyond the curriculum, I had responsibility for Physics Clinic, Physics Olympiad, UK Space Design Competition, and Exoplanets Club.

I had pastoral responsibility for my form group within the House system, and delivered the PSHE (Personal, Social & Health Education) curriculum to pupils in my care.

After two years at the school, I was given the additional role of Extra-Curricular Enrichment Tutor. In this capacity I mentored students in all aspects of charity fundraising, and helped them plan events throughout the school year to raise funds and awareness for our partner organisations. Additionally, I ran the school's Model United Nations club, holding regular mini-conferences at the school and taking my delegations to conferences at other schools.

Throughout my time at QE, I also helped mentor trainee teachers; this involved observing their lessons and giving feedback, as well as helping them plan their own delivery of the curriculum.

Fundraising Manager, Listen Fundraising, London — 2009 - 2013

I joined Listen as a telephone fundraiser, but was rapidly promoted to Assistant Fundraising Manager and then Fundraising Manager. I was responsible for running telephone campaigns for charities such as Amnesty International and Cancer Research UK within my team. This involved training and coaching fundraisers, liaising with the charity directly, and weekly reporting. During my time on the phones, the total value of the gifts I raised exceeded half a million pounds.

SKILLS

Coding: Fluency in Python, HTML, Javascript, LaTeX. Proficient in all common data analysis packages used in astronomy, including Numpy, Matplotlib, Pandas, Astropy, Scipy, etc.

Languages: Native speaker of English and Spanish

CONFERENCE TALKS AND SEMINARS

- *Colour-Magnitude Diagrams of Transiting Exoplanets III*, ESTEC, Noordwijk, Netherlands, Ariel Conference – Contributed Talk – January 2020
- *Planet Hunting from Antarctica*, UKEXOM2021 (remote) - Contributed talk - April 2021
- *TESS Photometric Follow-up with SPECULOOS and ASTEP*, NAM 2021 (remote) - Contributed talk - July 2021
- *Rare Transits Observed by ASTEP from Antarctica*, SCAR AAA Meeting (remote) - Contributed talk - September 2021
- *Planet Hunting with ASTEP+*, Concordia Station, Antarctica - Seminar - December 2021
- *Observation scheduling and automatic data reduction for the Antarctic Telescope*, ASTEP+, SPIE Astronomical Telescopes + Instrumentation 2022 (Montreal, CA) – Contributed Talk – July 2022
- *Detecting Cool Transiting Exoplanets*, Université de Montréal – Seminar – July 2022
- *Detecting Cool Transiting Exoplanets*, Harvard University – Seminar – August 2022.
- *The Antarctic Search for Transiting Exoplanets*, UKEXOM 2022 – Contributed Talk – September 2022
- *On the Hunt for Warm and Temperate Exoplanets*, University of Bristol - Seminar - September 2023

ACCEPTED PROPOSALS

Hubble Space Telescope (PI):

Title: Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptune for Atmospheric Characterisation

Time awarded: 12 Primary Spacecraft Orbits in Cycle 29

Equivalent cost: \$600,000

ESPRESSO on the VLT (PI):

Title: Probing the formation of close-in giant planets around low mass stars

Time awarded: 29.9 hours

Equivalent cost: €107,000