

## EDUCATION

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- **PhD in Solar Physics and Machine Learning** 2023-Ongoing  
*Mullard Space Science Laboratory, University College London, UK*
  - Investigating the applications of Machine Learning in solar physics under the supervision of Prof. Lucie Green.
  - Particular interest in the forecast of coronal mass ejections using solar imaging data.
- **MSc in Astrophysics** 2022-2023  
*University College London, UK* Distinction
  - Master Research project under the supervision of Dr. Vincent Van Eylen on the effects of observational cadence of exoplanet transits in the characterization of planetary parameters.
  - Leading to first author publication in the Monthly Notices of the Royal Astronomical Society.
- **BSc in Physics with Astrophysics and Cosmology** 2018-2021  
*King's College London, UK* First Class Honors
  - King's Undergraduate Research Fellow under supervision of Prof. Malcolm Fairbairn investigating the connection between dark matter and the cooling of white dwarfs.

## RESEARCH PROJECTS

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- **Observational cadence effects in exoplanet transit characterization** 2021-2022  
*MSc Research Project, University College London, UK*
  - MSc Research project under the supervision of Dr. Vincent Van Erylen. Leading to first-author paper publication in the Monthly Notices of the Royal Astronomical Society, along with the release of a python package.
- **King's Undergraduate Research Fellowship** Summer 2021  
*King's College London, UK*
  - Summer fellowship involving independent research work under the supervision of Prof. Malcolm Fairbairn.
  - Main work involved the development of a python script capable of generating an accurate white dwarf population, evolving it and obtaining observable predictions from existing evolutionary models.

## ACHIEVEMENTS

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- **Harrie Massey Prize** 2022  
*Best Astronomy MSc Student* University College London
- **Dillon Prize** 2019  
*Best Overall results in first year examinations* King's College London

## PUBLICATIONS

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- **Understanding and predicting cadence effects in the characterization of exoplanet transits** 2023  
*DOI: 10.1093/mnras/stad408* MNRAS

## TECHNICAL SKILLS AND INTERESTS

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### SKILLS

<b>Python</b>	Advanced	● ● ● ● ●
<b>Linux</b>	Intermediate	● ● ● ○ ○
<b>GitHub</b>	Intermediate	● ● ● ○ ○
<b>SQL</b>	Intermediate	● ● ● ○ ○
<b>C++</b>	Basic	● ● ○ ○ ○
<b>JavaScript</b>	Basic	● ● ○ ○ ○

### INTERESTS

- Ethics of Artificial Intelligence
- Machine Learning
- Future of Humanity
- Humanism

## LANGUAGES

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- **Spanish** Native
- **English** C2