

# Daragh Hollman

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🌐 daraghhollman • DOB: 06 March 2002

I am currently a PhD student with the Dublin Institute for Advanced Studies studying Mercury's magnetosphere. My research involves how the magnetosphere interacts with the solar through the analysis of large data sets from the MESSENGER mission, and upon its arrival, BepiColombo. I'm a Government of Ireland Postgraduate Scholar, fully funded by the Irish Research Council. I have recently graduated from UCD with first class honours, BSc. Physics with Astronomy and Space Science.

## Education

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### Bachelor's of Science in Physics with Astronomy and Space Science

University College Dublin,

2020–2024

Grade: First Class Honours, 3.74/4.2

Academic Achievements: I recieved an A+ grade on my final project - paper entitled: "Comet 62P/Tsuchinshan 1: A photometric investigation of an evolving dust production rate and other cometary properties at small heliocentric distances post-perihelion".

## Publications

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Hollman, D. M., Jackman, C. M., Louis, C. K., Rutala, M. J., Huybrighs, H. L. F., & McEntee, S. C. (2024). Juno Universal Plotting Tool v1.1.2. Zenodo. <https://doi.org/10.5281/zenodo.8223818>

## Experience

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### Teaching

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#### Physics Tutor

*Self Employed*

I have provided private tutoring for students of multiple levels, including junior certificate, leaving certificate, and undergraduate students.

#### UCD School of Physics

*Teaching Assistant*

2023

For the Autumn semester of 2023 I undertook a teaching and learning module, which - along with lectures - included three hours per week teaching the tutorials for first year module "Astronomy & Space Science". This involved preparing for each tutorial, aiding the students in completing it, and providing solutions and feedback on a group and individual basis.

### Vocational

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#### Ramblers Way

*Sales Associate*

*Outdoor equipment shop selling footwear, clothing, and accessories.*

Dublin City

2021–2022

#### Dunnes Stores

*Sales Assistant*

*Key responsibilities included food safety, stock replenishment and manual handling.*

Donaghmede, Dublin 13

Sep 2020–2021

#### Howth Yacht Club

*Rescue and Mark-laying*

*Provide rescue and mark-laying services for sailing races including national and international events*

Howth, Dublin 13

2017–2020

## Social and Entrepreneurial.....

### Young Social Innovators

*OFFGRID YSI*

*2017–2018*

I participated in the Young Social Innovators competition as part of a team called **OFFGRID** which aimed to prove that anyone can make a difference to the environment by installing clean energy sources in their school and by spreading awareness. The OFFGRID project was very successful. We featured on national television and radio and won 1st prize in our category: Climate Action.

### SAGE Global Entrepreneurship

*OFFGRID Schools*

*2018–2019*

Myself and my team represented Ireland in the **SAGE World Cup** competition (Students for the Advancement of Global Entrepreneurship) as a continuation of the OFFGRID project. It was an amazing experience and fantastic to win the United Nations Sustainable Development Goal award for 'Affordable and Clean Energy.'

## Skills and Awards

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- 2024: Irish Research Council - Government of Ireland Postgraduate Scholar
- **Technical Skills:** Python, Git, Linux
- **Laboratory Skills:** Numerical simulation, data analysis, image reduction, soldering
- First Aid Qualified, REC 3 (Rescue and Emergency Care)
- 2020: Prefect at St. Fintan's High School
- 2019-2020: Irish National U20 Ultimate Frisbee Team
- Experienced with Microsoft Office Suite
- Experienced with Adobe Creative Suite including Photoshop, Illustrator, Premiere Pro and After Effects

## Languages

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I am fluent in English and have Leaving Certificate Level Irish and French. I am currently learning Dutch in my spare time.

## References

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*Available upon request*