

Owen A. Johnson

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EDUCATION

PhD, Physics and Astrophysics, Trinity College Dublin [2022-26]
BSc (Hons.), Physics with Astronomy and Space Science, University College Dublin [2018-22]

RESEARCH EXPERIENCE

Astrophysics Research Assistant | University of California at Berkeley [May'21-Aug'22]

Working as part of the Breakthrough Listen initiative using low frequency radio and optical observatories to search for evidence of extra-terrestrial life, FRBs and pulsars.

Research Intern | University College Dublin [Jan'21-May'21]

Working on a case study that involves the analysis of surveys to inform the write up of research reports and the preparation of supporting materials for the incorporation of EDI awareness into physics and mathematics teaching and learning practices

SKILLS & INTERESTS

Programming Languages: C, CUDA, Python, SQL, bash, awk, \LaTeX

Data Science Tools: Scipy, Matplotlib, Panda, Scikit-learn, Seaborn.

Research Interests: Time domain astronomy, Gravitational Waves, Machine Learning, Cosmology

PROJECTS

Using the Old Open Clusters for Galactic Tracing | Dr. Antonio Martin-Carrillo [Sep'21-May'22]

Final year project to be submitted as part completion of BSc. Project involved the planning, observation, reduction and analysis of optical data to predict the timescale inflation of the outer-disk of our Galaxy.

POSITIONS OF RESPONSIBILITY

Residential Assistant | UCD Estate Services | Volunteer [Aug'21-May'22]

Out of hours service to over 750 university residents. Fire safety & first aid training. Liaise with estate services, campus security and other residential assistants. Providing safety and community for all students.

Senior Access Leader | UCD Access and Lifelong Learning [March'19-May'22]

Out of hours service to over 750 university residents. Fire safety & first aid training. Liaise with estate services, campus security and other residential assistants. Providing safety and community for all students.

Auditor/Chairperson | UCD Science Society | Volunteer [May'20-May'21]

Led Ireland's largest student charity society, raising money for charity and creating community within science cohort. Designed and ran weekly events for members. Co-founded the Irish National Science Championship (INSC), which was awarded event of the year.

SCHOLASTIC ACHIEVEMENTS

UCD President's Awards [2021]

UCD Award: Recognition of Student Achievement [2020]

Outstanding Leaving Cert Award [2018]

Leaving Cert Scholarship Award [2018]

PUBLICATIONS

Johnson, O.A. et. al (2022). Simultaneous dual-site SETI with LOFAR international stations. Manuscript to be submitted for publication to ApJ (copy on file with authors)

TEACHING

Third Year Astrophysics Labs, Trinity College Dublin [2023]

First Year Astrophysics Labs, Trinity College Dublin [2023]

First Year Physics Labs, University College Dublin [2022]

OUTREACH

Our Cosmic Address, A series of talks about our place in the universe and the road to become a scientist. Given to students ages 8 - 12. [2023]

SERVICE

Co-organiser of TCD Astronomy's Department Talk Series [2022 - Present]

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Last Updated: May 16, 2023