

Owen A. Johnson

PhD Researcher, Physics & Astrophysics
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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

Visiting Researcher | University of California at Berkeley [Sep'22-Aug'26]

Half of my PhD was funded through UCB, where I spent a substantial amount of time completing numerous projects contributing to my research.

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, L^AT_EX & Julia

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

Research Interests: Time domain astronomy, Gravitational Waves, Machine Learning, General Relativity & 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]

Ambassador for underrepresented students in third level education. Worked on outreach, panels and organising events. Providing advice for incoming & prospective underrepresented students, helping them acclimated to third level education.

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 submitted for publication to AJ (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]
Introduction to L ^A T _E X Charity Workshop, University College Dublin	[2019]

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]
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SERVICE

Co-organiser of TCD Astronomy's Department Talk Series	[2022 - Present]
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Last Updated: August 16, 2023