

Clár-Bríd Tohill - CV

Personal Information

Address: 22 Thyra Grove, Beeston, Nottingham, NG9 2BL

Phone: 07447933467 (0044 international dialling code)

Email: clar-brid.tohill@nottingham.ac.uk

Drivers Licence: Yes

Date of Birth: 18/12/96

Nationality: Irish (hold UK citizenship)

Education

2019-current: PhD in Astrophysics at the University of Nottingham

2015-2019: MPhys Physics with Astrophysics at the University of Kent – First Class Masters

2015: A Levels: Math - (A), Sociology - (A), Physics - (B)

2014: As Level: Math – (A), Sociology – (A), French – (B), Physics – (B)

2013: GCSEs: 11 (A* - B) .

Research Experience

University of Nottingham 2019 - current

My PhD work focuses on high redshift galaxies and machine learning. Through this I have been working with data from the Hubble Space Telescope and investigating different types of machine learning algorithms.

University of California San Diego 2017-2018

While studying at the University of California San Diego I took part in an observational astrophysics laboratory where I investigated the proper motion of asteroids using data that I took with the Nickel Telescope at the Lick Observatory.

University of Kent 2015-2019

While undertaking my masters at the University of Kent I was investigating the characteristics of aperiodic variable young stars using data from the Beacon Observatory. The Observatory consists of a 3.5 meter all sky dome with a 17” Astrograph telescope.

Additional Skills

Computing skills: Python, Fortran 95, Tensorflow, Keras

IT Applications: UNIX, LINUX, Microsoft office, LaTeX

Laboratory Experience

Demonstration and marking

Organisational skills

Communication

Professional Memberships

Student membership of the Institute of Physics (IOP)

Fellow of the Royal Astronomical Society (RAS)

Awards

2015 – Academic Scholarship from University of Kent

2015 – Pope John Paul II Award (Gold)

2014 - University of West London Grade 6 pianoforte

2013 – President’s Award (Bronze)

2013 – GCSE Excellence Award

2012 – St John’s Ambulance First Aid training

2011-2014 – Member of Glengormley Fire Cadet scheme, included Anti-sectarianism/Anti-racism training

Positions of Responsibility

Manager of the Inflativeverse - From 2019-current I have been a manager of the University's inflatable planetarium which we bring to primary schools and other events as part of our outreach programme. Through this we aim to inspire children to remain in education and teach them about our galaxy.

Secretary of Physics Society - From 2016-2017 I was the secretary of PhySoc the academic physics society at the University of Kent. From this role I developed improved organisational and communication skills as I was in charge of the weekly newsletter and any bookings the society needed.

Work History

Lab demonstrator/marker -

Have worked as a laboratory demonstrator in first year physics labs at the University of Nottingham for the past 2 years. This role includes demonstrating with the labs on a weekly basis and marking lab diaries as well. From this I have gained teaching and marking experience as well as how to improve my science communication.

Exam Invigilator –

Both GCSE and A Level

Secretary – Lisbreen House

My roles included working at the front desk as a Secretary, answering phones, dealing with visitors, general office work, filing, making appointments and other daily duties. From this I gained many skills including multitasking, being more organised, time management and learning to use my own initiative. I was also tasked with compiling and producing a number of brochures and documents for the organisation.

Volunteer - at Sentinus Young Innovators Science fair for two years at the Odyssey Arena. Jobs included setting up for the event and helping manage the audience and participants.

References

Dr Steven Bamford (Supervisor)

Associate Professor

University of Nottingham

School of Physics & Astronomy

Nottingham UK

NG7 2RD

Email: steven.bamford@nottingham.ac.uk

Professor Christopher Conselice (Supervisor)

Jodrell Bank Centre for Astrophysics

University of Manchester

Oxford Road

Manchester UK

Email: conselice@gmail.com