Meirin Oan Evans

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Strong physics, data science and communication skills developed through my education and work experiences. Passionate about applying my skills to help save lives. Looking for a 3-month placement or internship using data science in healthcare.

Key Skills

Problem solving:
- Enhancing my programming proficiency in a number of programming languages (Python, C, C++, MATLAB, Arduino).
- Completed weekly assessed physics problem sets during my undergraduate, master's and PhD.
- Supervised school students as a voluntary physics teaching assistant, giving them more discussion opportunity and freeing up time for their teacher.
- Improved experimental teamwork skills by working with a partner during my laboratory courses at university, leading to strong grades in practical courses.

Leadership:
- During my undergraduate degree, I led workshops for first years and provided pastoral advice for their transition to university.
- Whilst undertaking summer internships at Cardiff University I mentored 5 Year 12 students on work experience/summer projects.
- Led stand explaining the science behind meteors and their effect on Earth at a Welsh language festival.
- Successful as a head coach for junior school basketball teams during games and training sessions.

Understanding & motivation:
- Committed to undertaking a 4-year PhD to improve my subject knowledge and specific data science skills.
- Master's project "Enabling Open Science with the ATLAS Open Data project at CERN" - preparing data from particle collisions to release to the public for use in education and outreach.
- Succeeded in using network of telescopes to gather observational astronomical data to be used in education and teaching during my internship at Cardiff University.
- Constantly seeking to improve my physics communication skills through essays, presentations, talks, poster competitions and reports.

Planning & organising:
- Completed a group project researching neutron stars and gravitational waves to produce a booklet introducing A level students to the topic.
- Designed, conducted and evaluated an individual investigation comparing particle physics research in Welsh universities with those in Norway, leading to the award of my Welsh Baccalaureate.
- Publishing popular science blogs in Welsh and English during my internship at Science Made Simple required that I structure my blogs in advance, then execute the plan I had laid out.
- Improved exam grades of numerous students as a maths personal tutor, which necessitated lesson planning and time organisation during each tutoring session.

Education

PhD Physics, University of Sussex, 2018-present
Integrated Master's (MPhys) Physics, University of Manchester, 2014-2018

Work Experience

PhD Physics, University of Sussex, 2018-present
- Qualification task over first year: "Prepare and process ATLAS experiment at CERN Open datasets for use in education worldwide".
- Students have benefited from these data to learn particle physics, computing and data science.
- My research work makes precise tests of experimental data compared to theoretical predictions to check for gaps in the Standard Model of particle physics.

Master's in Physics, University of Manchester, 2017-2018
- Final grade 83% (1st class honours). Results within top 10 of 280 person year group.
- Completed individual research master's project - most students are in pairs.

Intern, Science Made Simple & Cardiff University, July 2016 - August 2016 & June 2017 - September 2017
- Translated materials from English to Welsh, mainly for A level audiences.
- Set up, calibrated, tested and created instructions for experimental kit to be used in schools, thus bringing cool science experiments to young people.
- Learned techniques of photometry in Astronomy to study exoplanets. These same techniques can be applied to healthcare.
- Assisted in delivering space workshops in schools and teacher training workshops.

School Exam Invigilator, Ysgol Gymraeg Bro Morgannwg, June 2016 - June 2018
- Supervise and carry out admin duties related to school exams.
- High responsibility in ensuring all procedures are correctly carried out.

Student Ambassador, University of Manchester, November 2015 - June 2018
- Worked on various outreach events to enthuse and motivate prospective students about Higher Education and the University of Manchester.
- Experience of working with children from primary to post-16, and their parents.
- Represented the University of Manchester at information, advice and guidance events in Wales.

Languages

Fluent in Python & C++.
Fluent in Welsh, English, French.

Additional Skills & Interests

IT   Strong skills in many computer applications (MS Office, linux operating system).
Basketball   Captained Wales U18s in Euro Championships, President for university club.

References available on request