Curriculum Vitae
Dwayne SPITERI

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After completing my doctorate on the ATLAS experiment, I am looking for a research position that requires some level of data analysis, statistical modelling, and simulation work. Preferably this would be on a different experiment such that I can obtain new skills and diversify my knowledge-base.

Education

University of Glasgow (2016 - 2020) : PhD Candidate in Experimental Particle Physics

University of Birmingham (2012 - 2016) : MSci Physics with Particle Physics and Cosmology - 1st Class

Work Experience

Researcher at CERN (July 2016 - December 2018)

- Contributed to the data analysis software framework used by the ATLAS experiment on the Large Hadron Collider.
- Primary focus on the development of the trigger framework and the statistical fitting using C++ and Python.
- Member of the main analysis team which published a research-grade statistical analysis of previously undiscovered sub-atomic interactions of the Higgs Boson.
- Applied advanced statistical methods (Binned Maximum Likelihood Estimators) to identify small signals in large backgrounds.
- Spent hundreds of hours in the ATLAS control room monitoring the Inner Detector over a span of 18 months among dozens of career scientists.

Co-ordinator for ATLAS Virtual Visit Programme (January 2017 - March 2019)

- Managed a team of Volunteers at the CERN lab in Geneva delivering video conferences to schools and the general public on behalf of the ATLAS collaboration.
- Talked with students from many differing education levels and ages about the ATLAS experiment and CERN.
- Explaining physics concepts in talks using a variety of perspectives to deepen understanding or teach advanced concepts.

Technical Skills

Computer languages (proficient)

- MATLAB, Python and C++, git.
- Taught undergraduates in Python and MATLAB courses.

Computer languages (familiar)

- SQL

Hardware (familiar)

- basic electronics, clean room procedures and equipment, handling low-level radioactive substances.

Social Skills

Organisation and time management

- In my role as Resident Association President and with the help of fellow committee members, I have organised events for hundreds of people.
- Logged over 2000 volunteering-hours alongside my undergraduate degree.
- Written and edited several successful grant applications.

Interpersonal and Teamworking skills

- Became Collaboration Spokesperson for a 16-person group-study project and helped lead the group to a First Class mark.
- Directed and starred in a video promoting Physics at the University of Birmingham.
- Organised a team and created an outreach event Pint of Science in 2017, 2019 and 2020.

Interests and Accolades

- Completed the University of Birmingham Personal Skills Award (PSA) Advanced (2015). Short-listed for PSA Student of the Year.
- Completed CMI-accredited Level 3 Project Management Course (2019).
- SISA Level 1 Accreditation Glasgow Business School (2020).
- Interests include badminton, bridge, board games, bouldering, chess, snowboarding.

References

Professor Aidan Robson	**Professor Philip Allport**	
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