Dwayne Spiteri Ph.D

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in dwayne-spiteri-29224489

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.

Achievements and Interests

- University of Birmingham Personal Skills Award (PSA) Advanced (2015). Shortlisted for PSA Student of the Year.
- Level 3 CMI Project Management Course (2019).
- Level 1 SISA Accreditation Glasgow Business School (2020).

- I play badminton and go bouldering once or twice a week. I also enjoy snowboarding
- I enjoy tabletop games of skill such as bridge and chess and have a variety of board games.

References

Professor Aidan Robson
PhD Supervisor
University of Glasgow
Glasgow G12 8QQ
aidan.robson@cern.ch

Education

2012 - 2016	**University of Birmingham** MSci Physics with Particle Physics and Cosmology · 1st Class
2016 - 2021	**University of Glasgow** Ph.D in Experimental Particle Physics · Based at CERN, Geneva from July 2017 - December 2018. Thesis Hyperlink - Higgs boson studies: associated production with a vector boson and decay into b-quarks using the ATLAS Run-2 dataset.

Research Experience

Jul 2015 - Sep 2015 **FLC Group**	**Summer Internship at DESY, Hamburg** ● Tested the properties of Si sensors in a clean room laboratory for the FLC Group. ● Used C++ to perform fits on laboratory data. ● Presented my work and wrote a 17 page report summarising my findings.
Jul 2017 - Nov 2018 **ATLAS Experiment**	**Tracking Combined Performance Group** ● Investigated track objects that arise due to incorrect combinations of hits made in the Inner Detector (fake tracks). ● Parametrised the differences between Monte Carlo modelling of track objects and tracks reconstructed from data. ● Derived recommendations for the uncertainty on the number of fake tracks found in Monte Carlo simulations for the entire ATLAS collaboration.
Mar 2018 - May 2020 **ATLAS Experiment**	**VHbb Analyses Member** ● Member of two analysis teams that made the first observation and measurements of the Higgs boson decay to b-quarks via associated Vector Boson production (VHbb). ● Contributed to a shared data analysis software framework based in C++ with Python wrapper scripts. ● Investigated and corrected unexpected fluctuations in a statistical fit model containing thousands of nuisance parameters.

Public Engagement Experience

Nov 2016 - Mar 2020	**Pint Of Science Festival Organiser** ● Led a team of four people to create themed events over three nights for 90-120 members of the public. ● Organised events for the Glasgow branch of the festival in 2017 (Creative Reactions), 2019 (Our Society) and 2020 (Planet Earth).
Jan 2017 - Mar 2020	**UK Co-ordinator for the ATLAS Virtual Visit Programme** ● 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.