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# DWAYNE SPITERI Ph.D

## Technical Skills

### —Programming—

C++ ●●●●●  
MATLAB ●●●●●  
Python ●●●●●  
SQL ●●●●●

### —Software—

LaTeX ●●●●●  
Sublime Text ●●●●●  
Git ●●●●●  
Gantt Project ●●●●●  
Mural ●●●●●

### —Microsoft—

Word ●●●●●  
Powerpoint ●●●●●  
Excel ●●●●●

### —Languages—

English ●●●●●  
French ●●●●●

## Achievements

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

## Interests

- I play badminton and go bouldering once or twice a week. I also enjoy snow-boarding.
- I enjoy tabletop games of skill such as bridge and chess; I 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.