

# Dr Alexander Shires

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## Education

### Imperial College London, UK, London, UK

Ph.D., High Energy Physics , *October 2013*

Thesis topic: *Exploring  $b \rightarrow s$  electroweak penguins at LHCb*

Supervisor: Prof. Ulrik Egede

MSci, Physics with Theoretical Physics, *October 2009*

First Class degree

Masters project: *Topological Measures of the Cosmic Microwave Background*

Supervisor: Dr. Carlo Contaldi

### Hardenhuish School, UK

A-levels, August 2005

Physics (A), Maths (A), Further Maths(A), Chemistry(A)

GCSEs, August 2003

3 A\* , 3 A, 3 B.

## Professional Experience

TU Dortmund, Germany

*Post-doctoral research assistant*

**June 2013 onwards**

TODO

CERN, Switzerland

*PhD student*

**Aug 2010 to Dec 2011**

Placement at CERN as part of my PhD studentship, lived in Geneva and worked at CERN for 14 months. Participated in the running of the LHCb experiment alongside my research.

Imperial College London, UK

*Undergraduate research placement*

**Summer 2008**

Developed and integrated autonomous remote testing for the Ganga project Added reporting options to show test failure differences between different versions.

Westinghouse Rail Systems, Chippenham, UK

*Junior engineer*

**Summer 2006, Summer 2007**

As a scholarship placement, worked as the sole data analyst for the first live railway trial of a multi-million pound project. Invited back to develop software to test the integration of a new railway track-side communications protocol.

## Publications and selected results

Additional author on 155 papers as a member of the LHCb collaboration.

## Invited talks

## Teaching experience

- 2014 Project supervision, 4<sup>th</sup> year undergraduate course, TU Dortmund.
- 2014 Project supervision, 3<sup>rd</sup> year undergraduate course, TU Dortmund.
- 2014 Particle identification seminar, part of the 4<sup>th</sup> year particle detectors lecture course, TU Dortmund.
- 2012 Computational lab demonstrator, 3<sup>rd</sup> year undergraduate course, Imperial College London.
- 2011 Experimental lab demonstrator, 3<sup>rd</sup> year undergraduate course, Imperial College London.

## Skills

C++, PYTHON, FORTRAN, SVN, Git, MS Office, L<sup>A</sup>T<sub>E</sub>X, Vim

Windows (XP, 7), Linux ( Ubuntu, Scientific Linux )

Full, clean, UK Driving licence (2004).