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# Adam Morris

## Curriculum Vitae

## Personal statement

I am a PhD student with the LHCb group at the University of Edinburgh. My research experience is in studies of four-body charmless hadronic decays of $B$ mesons.

## Education

**PhD in experimental particle physics**                                    2013 — 2017
University of Edinburgh

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| *Thesis title* | *Measurements of charmless $B_s$ meson decays at LHCb* |
| *Supervisors* | Matthew Needham and Franz Muheim |

**MSci in Physics**                                                          2009 — 2013
University of Birmingham

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|---|---|
| *Thesis title* | *A possible lepton flavour violation search at NA62* |
| *Supervisors* | Cristina Lazzeroni and Evgueni Goudzovski |
| *Classification* | 2:1 |

## Physics analysis activities

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| **Amplitude analysis of $B_s^0 \to \phi K^+ K^-$ decays** | 2015 — 2017 |
| **Measurement of the $B_s^0 \to \phi\phi$ branching fraction and search for $B^0 \to \phi\phi$** | 2014 — 2015 |
| **Measurement of CP violation in $B_s^0 \to \phi\phi$ decays** | 2013 — 2014 |

## Hardware and operations activities

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| **LHCb control room shifts** | 2015 — 2016 |
| **RICH piquet shifts** | 2015 — 2016 |
| **Ion feedback monitoring of the RICH HPDs** | 2015 — 2016 |
| **RICH upgrade testbeam** | 2014 — 2016 |
| **Performance of MaPMTs in magnetic fields for the RICH upgrade** | 2013 — 2014 |

## Schools, workshops and conferences

**Exotic hadron spectroscopy workshop**                     University of Edinburgh, September 2016

**Heavy Quarks and Leptons (HQL) conference**                          Virginia Tech, May 2016
Talk: *Charmless $b$-meson and $b$-baryon decays at LHCb*

**LHCC Poster Session**                                                      CERN, March 2016
Poster: *Measurement of the $B_s \to \phi\phi$ branching fraction and angular analysis of $B_s \to \phi\pi^+\pi^-$ at LHCb*

**UK HEP forum: "Anomalies and Deviations" workshop**            STFC, Abingdon, November 2015
Poster: *Measurement of the $B_s \to \phi\phi$ branching fraction and search for $B^0 \to \phi\phi$ at LHCb*

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| **European School of High-Energy Physics** | Bansko, Bulgaria, September 2015 |
| **Young Experimentalists and Theorists Institute (YETI) workshop** | Durham University, January 2015 |
| **B-physics at frontier machines (Beauty) conference** | University of Edinburgh, July 2014 |

Poster: *Measurement of CP violation in $B_s^0 \to \phi\phi$ decays*

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| **STFC HEP summer school** | University of Warwick, September 2014 |

## Public outreach

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| Participant in an 'Ask Me Anything' session organised by the CERN Press Office on *reddit.com* | May 2015 |
| Participant in a *Speed Science* event at the *Glasgow Science Festival* | June 2014 |
| Demonstrator at the *Discovering the Higgs Boson* exibit at the *Big Bang Fair*, Birmingham NEC | March 2014 |

## Skills

- Data analysis techniques, including multivariate selection, maximum-likelihood fitting, amplitude analysis and limit-setting
- Proficiency with C, C++, Python and shell scripting
- Experience with ROOT (incl. TMVA, RooFit and RooStats), GSL, Boost and the LHCb software (incl. Gauss and DaVinci)
- Experience using parallel computing resources, such the Edinburgh and CERN batch services and the LHC Grid (via DIRAC and Ganga)
- Experience with collaborative software development and version control systems (Git and SVN)

## Publications