163, avenue de l 13288 Marseille	Luminy	Adam Morris	+33 652 61 29 16 adam.morris@cern.ch	
Employment				
Postdoctoral res	earcher Marseille University (Olivier Lei	roy)	Dec 2017 — Feb 2020	
Postdoctoral res University of Edi	earch associate nburgh (Greig Cowan)		Aug 2017 – Nov 2017	
Education				
PhD in experimental particle physics Sep 2013 — Se University of Edinburgh				
Thesis title Supervisors	Measurements of charmless in Matthew Needham and Fran			
MSci in physics University of Bir	mingham		Oct 2009 – Jul 2013	
Thesis title Supervisors	A possible lepton flavour viol Cristina Lazzeroni and Evgu			
Contributions	s to LHCb physics analysi	S		
Measurement of $R(D^*)$ using hadronic τ decays Major contributions to all parts of the analysis as one of two full-time proponents				
Amplitude analysis of $\Lambda_b \to \chi_{c\{1,2\}} p K^-$ decays Development of the amplitude fitter within the TensorFlowAnalysis framework.				
Amplitude analysis of $B^0_s \to \phi K^+ K^-$ decays 2015 Primary thesis work and sole full-time proponent.				
Measurement of the $B_s^0 o \phi \phi$ branching fraction and search for $B^0 o \phi \phi$ Thesis work and sole full-time proponent.				
Measurement of CP violation in $B^0_s o \phi \phi$ decays Fits to the $\phi \phi$ invariant mass.				
LHCb hardware work				
Ion feedback mo Periodic analysis	_	n the HPDs installed in the RICH to predict when th	2015 — 2016 ey need to be replaced.	
RICH upgrade testbeam 2014 $-$ 2016 Participant in 4 testbeam periods, during which I took data-taking shifts and improved the automation of the data acquisition and processing. I also performed the dark count analysis and developed an online alignment tool.				
Per-pixel efficie	MaPMTs in magnetic fields ncy measurements as a functing in the RICH upgrade.	on of magnetic field strength. This work was the b	2013 – 2014 asis of the decision to use	
Shifts and res	sponsibilities in LHCb			
MC production n	2019 —			
Filtered MC liais	2018 —			
Semileptonic WG MC liaison				
Review Committee member $ 2018 - 900000000000000000000000000000000000$				
L0 trigger piquet shifts (3 weeks)				
Control room shifts (13 \times shift leader & 11 \times data manager) 2015 –				
DICH visual differ (7				

+44 7719 773067

2015 - 2016

CPPM, Case 902

RICH piquet shifts (3 weeks)

Skills

- HEP data analysis: multivariate selection, maximum-likelihood fits, amplitude analysis, template fits, limit-setting
- Proficiency with C++, Python and shell scripting.
- Proficiency with ROOT (incl. TMVA, RooFit and RooStats), GSL, Boost and the LHCb software
- Proficiency with version control systems (Git and SVN) and experience with collaborative software development
- Experience using distributed computing resources, such as the Edinburgh and CERN batch services and the LHC Grid
- Experience with analysis preservation and reproducibility tools (Snakemake, Docker, Continuous Integration)
- Experience testing the performance of photodetectors

-		
leaching	and	supervision
reactiffing	aria	Jupervision

NB: by 'supervision' I do not imply official supervisor roles within the university, but day-to-day guidance and instruction.

Supervision of PhD student 2017 - 2020Dawid Gerstel on the $R(D^*)$ hadronic measurement at Aix-Marseille University. Data acquisition and handling 2017 Electronics & programming lab demonstrator for undergraduate students at Edinburgh 2017 Programming lab demonstrator for undergraduate students at Edinburgh 2015 Supervision of summer student Rebecca Carrahar at the RICH upgrade testbeam Supervision of summer student 2014 Viktoria Hinger in the MaPMT testing lab at Edinburgh

Supervision of masters student

Josh Neill in the MaPMT testing lab at Edinburgh

Public outreach

Participant representing LHCb in an 'Ask Me Anything' session organised by CERN 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 exhibit at the Big Bang Fair, Birmingham NEC March 2014

2013 - 2014

Sommières, November 2019

Aix-Marseille University, October 2018

Heidelberg University, September 2018

Ghent, July 2019

Presentations at conferences and workshops

GDR Intensity Frontier Annual Meeting

Talk: Lepton flavour universality in $b \rightarrow c$ transitions

European Physical Society Conference on High Energy Physics (EPS-HEP)

Talk: CP violation in multi-body charmless b-hadron decays at LHCb

XIII Franco-Italian Meeting on B Physics

Talk: Lepton flavour universality violating B decays in trees

10th International Workshop on the CKM Unitarity Triangle

Talk: Tests of lepton flavour universality using semitauonic B decays at LHCb

PyHEP 2018 Sofia, July 2018

Talk: Using TensorFlow for amplitude fits

Heavy Quarks and Leptons (HQL) 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" 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

B-physics at frontier machines (Beauty) University of Edinburgh, July 2014

Poster: Measurement of CP violation in $B_s^0 o \phi \phi$ decay

Schools attended

Ecole de Gif Clermont-Ferrand, September 2018

IN2P3 School Of Statistics La Londe Les Maures, May 2018

European School of High-Energy Physics Bansko, September 2015

Young Experimentalists and Theorists Institute (YETI)

Durham University, January 2015

STFC HEP summer school University of Warwick, September 2014

Papers

Characterisation and magnetic field properties of multianode photomultiplier tubes,

S. Eisenhart et al, Nucl. Instrum. Meth. A766 (2014) 167-170

Measurement of CP violation in $B^0_s o \phi \phi$ decays,

LHCb collaboration, Phys. Rev. **D90**, (2014) 052011

Measurement of the $B_s^0 o \phi \phi$ branching fraction and search for the decay $B^0 o \phi \phi$,

LHCb collaboration, JHEP 10 (2015) 053

Test of the photon detection system for the LHCb RICH Upgrade in a charged particle beam,

M. K. Baszscyk et al, JINST 12 (2017) 01012

Oscillations of B_s^0 mesons as a probe of decays with invisible particles,

A. Poluektov and A. Morris, arXiv:1911.12729 [hep-ph], submitted to JHEP

Proceedings

Measurement of CP violation in $B_s^0 o \phi \phi$ decays,

A. Morris, on behalf of the LHCb collaboration, PoS (Beauty 2014) 064

Charmless b-meson and b-baryon decays at LHCb,

A. Morris, on behalf of the LHCb collaboration, PoS (HQL 2016) 059

Using TensorFlow for amplitude fits,

A. Morris, on behalf of the TensorFlowAnalysis developers, DOI:10.5281/zenodo.1415413

CP violation in multi-body charmless b-hadron decays at LHCb.

A. Morris, on behalf of the LHCb collaboration, PoS (EPS-HEP 2019) 215