

## Contact

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# Adam Dobbs

## Physics Research Associate

**About me** I am an experienced higher education educator and researcher, with a PhD in high energy physics. I am currently a research associate with the High Energy Physics group at Imperial College London, my role including tutoring third year undergraduate students, supervising summer project students, supporting PhD students, and heading up the off-line software development of the Muon Ionization Cooling Experiment (MICE).

I have a passion for science and communicating it clearly and well, having worked professionally in physics research for the last 5 years. During this time I have prepared numerous articles for publication in professional journals and presented frontier research in the form of posters at multiple international conferences. I am a C++ and Python programmer of 10 years experience, adept at finding effective solutions to complex coding problems. My teaching commitment has been recognised twice with faculty level awards.

## Education

### 2016 - 2017, Imperial College London, PGCertULT

Postgraduate Certificate in Univeristy Learning and Teaching

### 2007 - 2011, Imperial College London, PhD in High Energy Physics

Thesis topic: Particle rate and host accelerator beam loss on the Muon Ionization Cooling Experiment

Supervisor: Prof. Ken Long

### 2002 - 2006, Univeristy of Warwick, MPhys

Upper second class MPhys (Master of Physics) degree with honours

### 1995 - 2002, Ferndale Community School

**A - Levels:** Mathematics - A; IT - A; Physics - A; Chemistry - B

**GCSEs:** Mathematics - A\*; IT - A\*; Physics - A; Chemistry - A;

Biology - A; English Language - A; Geography - A; Business Studies - A;

English Literature - B; History - B; Welsh - B

## Awards

### 2017 & 2013, Award for Support of Excellence in Teaching

Faculty of Natural Sciences, Imperial College London

## Professional Bodies

[Associate Member of the Institute of Physics](#)

[Fellow of the Higher Education Academy](#)

## Experience

### 2011 - present, Imperial College London, Research Associate

Teaching experience:

- 3rd and 2nd year undergraduate tutorials
- UROP and Nuffield summer project supervision

- Informal PhD supervision assistance
- High energy physics group Coder's Club committee member

Research experience with Muon Ionization Cooling Experiment:

- Operations Manager
- Beamline On Call Expert
- Beamline Coordinator
- Tracker Hardware Coordinator
- Head of Tracker Software
- Head of Offline Software

Outreach:

- Assisting at Imperial College HEP Masterclass for school students
- Speaker at the 2009 Goldsmiths' Particle Physics Summer School for teachers

## Selected Publications

For a full list see: <http://www3.imperial.ac.uk/people/a.dobbs07>.

### **The reconstruction software for the MICE scintillating fibre trackers**

A. Dobbs et al, *Journal of Instrumentation* 11(12):T12001, 2016

### **Pion contamination in the MICE muon beam**

D. Adams et al, *Journal of Instrumentation* 11(03):P03001, 2016

### **Electron-Muon Ranger: performance in the MICE Muon Beam**

D. Adams et al, *Journal of Instrumentation* 10(12):P12012, 2015

### **Progress Towards Completion of the MICE Demonstration of Muon Ionization Cooling**

A. Dobbs et al, IPAC-2014-THPRI030, 2014

### **Characterisation of the muon beams for the Muon Ionisation Cooling Experiment**

D. Adams et al, *The European Physical Journal C* 73:2582, 2013

### **The MICE Muon Beam on ISIS and the beam-line instrumentation of the Muon Ionization Cooling Experiment**

M. Bogomilov et al, *Journal of Instrumentation* 7:P05009, 2012

### **Progress in the Construction of the MICE Cooling Channel and First Measurements**

A. Dobbs and M. Rayner, *Proceedings of Science EPS-HEP2011*, 43, 2011

## Skills

- Communicating science
- Teaching in higher education
- Physics research
- Data analysis
- Public speaking
- L<sup>A</sup>T<sub>E</sub>X
- Software development
- Linux
- BASH
- C++
- Python
- Git, Bazaar, Jenkins

## Personal Interests

- Ballroom dancing
- Photography
- Reading (whodunits / sci-fi)
- Local church member

## References

Available upon request.