Cohort Project update

Cohort 4

Cohort Project update

Cohort 4

Quantum Engineering CDT University of Bristol

May 22, 2018

Cohort Project update

Cohort 4



Figure: Roadmap



¹Away-day presentation

Survey results

Cohort Project update

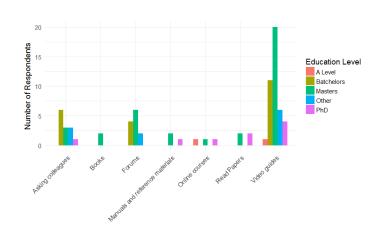


Figure: Results from onedrive ¹



Survey results

Cohort Project update

Cobort /

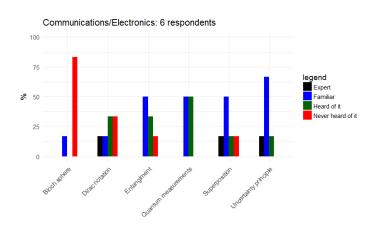


Figure: Results from onedrive ²



Sections we plan to include

Cohort Project update

Cohort 4

```
Quantum Meta-Programming for Dummies
             Cohort 4
         Quantum Engineering CDT
           University of Bristol
            May 11, 2018
1 Preface
This is where the preface will be
Contents
1 Preface
 2.1 . Why you should be interested in quantum computers \ldots,\ldots,\ldots,\ldots
 2.3 Traditional computers shortcomines & quantum supremacy 6
 3.1.1 Digital logic
 4.1 Adiabatic quantum computing & quantum annealers
 4.2 Rigetti-Forest
  4.2.1 Example Codes
 4.3 IBM- Project O
  4.3.1 Example Codes
```

```
5.3.4 The hidden subgroup problem 13
6 Programming a future universal quantum computer
6.2 Implementing Grover's algorithm 14
7.1.3 Compilers and abstraction
7.2.3 What are the operations?
7.6 The future
8.1 Quantum mechanics: The basics
8.2 Error correcting codes
```

Figure: Document at ³

Current work

Cohort Project update

Cohort 4

Quantum machine learning for data scientists

David Kopczyk Quantee Limited, Manchester, United Kingdom

The text time to present and originity question modules bearing algorithms to a data soluted in an excessible and considers were. The algorithm and explanate presents on the settlem in regions to intellustration falsion, intend, the present is put as comprise and step by sep-explanation of allitude loops. The consistent is given a converse of solution of settlem modern hearing but, which we know them is also a model of course extraction for quantum PCs algorithm improved to the contraction of the following the contraction of the contract

25 Apr 2018

L Introduction

2

Quantum Algorithm Implementations for Beginners

Partici J. Coles, Stephen Edwissen (Sent Polita, Audrestado Adolejri, John Audresdaro, Petr. Aniciore, Williams Capper, Gophant Chempsello, George, Gophant Chempsello, Garde, Berlei Mong, Loyd Gutze, Seekh Kern, Nacha Lensen, Silbare, Lin, Andrey Lakhor, Alexander Molyachdere, Parti Maccarens, Senna Maiserwali, Bah Nodips, Dan Golder, Berlei George, Lakkons George, Lakkons George, Berlei Bourer, Nachdadelere Starle, Nikakii Stitosya, Pieter Seart, Marc Vullroy, Inn Wordelerger, Berni Voon, Etchoel Zenner, and Wei Zin Leadawa. Andread Ledwister, Da. Advance, Schoel Stones, Con.

As quatratic conjuncts have been seasible to the greatel public, the seed has sixtue to test, and sold of contrast programmes, may of the last in the collection public comparison that the self-section of the collection of the co

Strawberry Fields:

A Software Platform for Photonic Quantum Computing

Nathan Killoran, Josh Izaac, Nicolás Quesada, Ville Bergholm, Matthew Amy, and Christian Weedbrook

Xanada, 372 Bicknord ScW, Yoronto, MSV 136, Consula

We introduce Structure Pfelds, as spowers quarter programing performed in this based quarter composes. And in Parket, decorable Pfelds is a feet after they code, exclusive, exclusion and agreementable search of entires woulded create. Be platform makes of these rates empressed; (i) an 60° for quarter programing and melladed, (ii) all region which can empty the effect of exclusion are not produced performance of the exclusion are produced performance of the exclusion are produced by the exclusion and the exclusion are exclusive and the exclusion and the exclusion