

Cameron McGarry

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Education

PhD, Imperial College London **2017–Present**

- Student in controlled quantum dynamics centre for doctoral training
- Graded “distinction” in master’s year
- Designing and microfabricating a chip trap for robust containment and control of cold molecules
- Applications in quantum technology, thermodynamics and communications
(Quantum optics, chemistry and information; laser science; microfabrication; Python; Mathematica)

MPhys, Corpus Christi College, The University of Oxford **2013–2017**

- Master of Physics, Upper Second Class Honours, integrated master’s and undergraduate degrees
- Master’s project: use of compressed sensing in plasma wakefield accelerators
(Atomic, molecular and laser physics; quantum information; condensed matter physics)

Research placements

Superconducting qubits, Department of Physics, University of Oxford **2016**

- Simulated and developed signal attenuator for use in experiments with superconducting qubits
- Eight week summer placement in Prof. Peter Leek’s research group

Unconventional computing, YCCSA, University of York **2015**

- Undertook research into novel forms of classical computation using nuclear magnetic resonance
- Utilised this well-understood “sandbox” environment to implement systems with continuous logic

Software projects

Oxford University Rowing Clubs Website **2017–2019**

- Began and lead development of a new CMS-based website as coordinator of small team
- Integrated with an existing system for handling entries into rowing events
- Also responsible for deployment and server maintenance
(Python, Django, SQL, Apache)

Qiskit contributor **2019–Present**

- Contributions to IBM’s open-source toolkit for interacting with quantum processors
(Python, quantum computing)

Other experience

Python lab demonstrating, Imperial College London **2018–Present**

- Demonstrator in Python course for second year physics undergraduates
- Teaching basics of object oriented programming

President, Corpus Christi College Boat Club **2016–2017**

- Responsibility for equipment, safety, recruitment and general running of a club
- Set out plans for long-term financial security of club by working with alumni and raising profile of club to attract potential sponsors

Treasurer, Oxford University Alternative Pickup Ice Hockey Club **2014–2015**

- Ran ice hockey sessions including collecting payment and ensuring safety
- Reduced financial deficit by approx. 80% by focusing heavily on recruitment