

Cameron McGarry

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Employment

Research Associate, University of Bath

2022–Present

- Developing fibre-optic components for quantum data centre including switches and single photon sources
- Interfacing photons with microresonators
- Development of quantum memory techniques
- Overseeing work of postgraduate students in the laboratory
- Working efficiently as part of a team across various experiments

Skills: Quantum optics, photonics, fibre-optic fabrication

Education

PhD, Imperial College London

2017–2022

- Student in Controlled Quantum Dynamics Centre for Doctoral Training and Centre for Cold Matter
- Designed, constructed and interfaced with optical experimental setups
- Microfabricated a chip trap for containment and control of cold molecules
- Modelled experiment, handled of data
- Disseminated research results
- Worked as part of a large collaborative teams over several experimental setups
- Achieved Distinction in master's year.

Skills: Quantum optics, laser science, microfabrication, Python, Mathematica

MPhys, Corpus Christi College, The University of Oxford

2013–2017

- Master of Physics, Upper Second-Class Honours
- Specialised in laser science, photonics, quantum information and condensed matter physics

Skills: Atomic, molecular and laser physics; quantum information; condensed matter physics

Other experience

Undergraduate teaching, Imperial College London

2018–2021

- Demonstrator in courses for second year physics undergraduates in programming and radioactivity
- Development of new programming problems to complement lecture courses, this was a new program and I contributed to the development of the department's teaching strategy as part of this role

Open machine learning course, Open Data Science

2019

- Studied machine learning as part of a global cohort
- Supervised machine learning and core data science skills
- Placed in top hundred students

Skills: Python, Pandas, scikit-learn

Contributor, Qiskit

2019–2020

- Contributed to IBM's open-source toolkit for interacting with quantum processors

Skills: Python, quantum computing

Website developer, Oxford University Rowing Clubs

2017–2019

- Led development of a new CMS-based website as coordinator of small team
- Responsible for deployment and server maintenance

Skills: Python, Django, SQL, Apache, Linux