

# Cameron McGarry

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## Employment

### Research Associate, University of Bath

2022–Present

- Designing, constructing and charactering optical devices for quantum technology
  - Development of photonic quantum memory techniques
  - Interfacing photons with microresonators
  - Management and supervision of postgraduate students
  - Data analysis in Python
  - Working efficiently as part of a team across various experiments
- Skills: Quantum optics, photonics, optical fibre fabrication, Python, management and supervision

## Education

### PhD, Imperial College London

2017–2022

- Student in Controlled Quantum Dynamics Centre for Doctoral Training and Centre for Cold Matter
  - Designed, constructed and operated free space optical experiments
  - Designed and constructed a microfabricated chip trap
  - Automated lab measurements in Python
  - Disseminated research results
  - Collaborated effectively within diverse, multi-disciplinary teams across multiple experimental projects
  - Achieved Distinction in master's year
- Skills: Quantum optics, laser science, photonics, microfabrication, Klayout, 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