# Tim Green

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I am a recent Ph.D. graduate looking to take on technical and analytic roles. I am comfortable using a range of technical, statistical and scientific methods to perform research, architect systems and build products.

## Education

- 2010–2014 — *Lincoln College, University of Oxford* – D. Phil. Materials Science.
  - Developed, and implemented in a successful commercial software package, computational quantum chemical methods for predicting NMR J-coupling, helping researchers develop new chemicals, drugs and materials.
  - Finished in four years with thesis '*Prediction of NMR J-coupling in condensed matter'*
  - Published a number of papers in good journals
  - Released a Python library used by several research groups
  - Taught mathematics to groups of undergraduates
- 2006–2010 — *Queens' College, University of Cambridge* – M. A. / M. Sci. (Hons) Natural Sciences, 1st Class.
  - Specialised in Experimental and Theoretical Physics, took Computer Science option in first year
  - Foundation scholarship at Queens' College
  - Ranked 1st in the year in third year computational project and fourth year atomic and optical physics paper
- 1999–2006 — *Royal Grammar School, Newcastle upon Tyne*
  - A-levels: 5 As in Maths (×3), Physics and Chemistry. Distinctions in AEA Physics and Maths
  - GCSEs: 8 A*s and 1 A

## Skills

My strongest technical specialities are *Python, Data analysis, Mathematical Methods, Linux, HTML, CSS*. I have non-trivial experience in *C++, PHP, Javascript, Fortran, Django, Flask, OpenMPI, MongoDB, PostgreSQL, MySQL*.

## Work and experience

- 2014–now — Post-doctoral research assistant, Department of Materials, University of Oxford as a 'Durham Emergence project' Fellow
  - Developing and implementing novel quantum methods for the calculation of NMR J-coupling in crystals
- 2015 — Team member in *Democracy Club* for the the UK General Election
  - Gathered data on political candidates for our premier project *YourNextMP.com*, moderated volunteer contributions, helped to set policy and manage communications
  - Helped to build the static public-facing website that went on to receive over 1 million visitors
  - Data was used by Google to power an election widget shown in UK search results and was used by a number of national newspapers such as The Guardian and The Telegraph, amongst others
  - Personally created *ElectionMentions.com*, a website for monitoring what the press is saying about any electoral candidates
- 2012,2014 — Founder, *YourNextPCC.com* and *YourNextMEP.com*
  - Created openly licensed databases of national election candidates in the 2012 Police and Crime Commissioner election and the 2014 European Parliament election
- 2010 — Delegate, UK PM's Trade & Investment trip to India

- Due to my work on *Democracy Club*, I was invited by the government to meet Indian 'civic hackers' as part of a trade trip, spending time in New Delhi and Bangalore, meeting the prime minister and other ministers.

➢ 2010 — Co-founder, *Democracy Club*, a non-partisan UK General Election crowdsourcing and participation project

- Developed crowd-sourcing participation site to gather information for 2010 General Election
- 6,000+ volunteers by polling day
- 100,000+ custom constituency quizzes taken, 5,000+ leaflets uploaded

➢ 2007–2010 — Queens' College JCR Computer Officer

- Developed website and internal software tools for undergraduate community

➢ 2007 — Founder, '*X Me*' Facebook application

- Acquired by RockYou, California, with 400,000+ users
- Eventually grew to 11+ million users