

Tim Green

Email: timothy.green@gmail.com

Github: tfgg

Phone: (+44)773 22 33 072

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