

Alex G. Squires
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Education

DOCTORATE - THE UNIVERSITY OF BATH

2017-Present *Ph.D.* - Computational Modelling of Defects in Battery Materials

FIRST DEGREE - UNIVERSITY COLLEGE LONDON

2013-2017 *Chemistry MSci.* - First Class Honours

- *Research Project*, Computational Screening of Bismuth Oxyhalides for Photocatalysis
- *Literature Review*, The Prospects for p-type Transparent Conducting Oxides

THE BULMERSHE SCHOOL

2005-2012 *A levels*, Chemistry (A), Physics (B), Biology (B), AS Mathematics (B)
GCSEs, 11 at A*-B, Including Mathematics (A) and English Language (A)

Publications

1. A. M. Ganose, **A. G. Squires**, D. O. Scanlon, Computational Screening of Bismuth Oxyhalides for Photocatalysis, in preparation.

Teaching Experience

2017-Present *Graduate Teaching Assistant*, University of Bath
Demonstration in computational chemistry labs at the University of Bath, ensuring the undergraduates have grasped the key concepts and acting as an approachable source of support.

2014-2016 *Personal Tutor*
Tutoring in A level Chemistry, AS Physics and GCSE maths and sciences. Covering all ranges of exam board syllabuses ensuring the students can achieve and exceed their targeted grades.

2014-2015 *Transition Mentor*, UCL
Helping first year students adapt to university life both academically and non-academically. Leading weekly sessions covering concepts they have been struggling with. Helping them deal with any personal or administrative issues that might come up in their first term at UCL.

Work Experience & Volunteering

2017 *Accounts Management Assistant*, Lou Coulson Associates
Administrative support in the accounts department, particularly maintenance of client financial

records.

2016-2017	<i>President</i> , UCLU Folk and World Music Society Developing a small, young society through publicity and student engagement, organising and auditioning acts for events and music production.
2015-2017	<i>Sales Assistant</i> , Cotswold Outdoors Helping customers identify correct product for them while building a rapport and ensuring they know the advice being given is useful and appropriate.
2015-2016	<i>Treasurer</i> , UCLU Music Society Holding responsibility for the account of a society with nearly 300 members, including overseeing the finances of a semi-professional opera company with a budget of £100,000.
2014-2015	<i>Chorus Manager</i> , UCLU Music Society Responsibility for the organisation group of approximately 50 members, making sure they are certain about times and locations, and what is required of them, and making sure any concerns they have with the society or the wider union are voiced.
2012-2013	<i>Building Site Labourer</i> , Skilz UK Ltd Working with tradesmen to ensure their job can be performed to the required standard. Performing tasks such as minor demolitions, small repairs and preparatory work for large projects. Worked as a go between for multiple subcontractors making sure all worked together effectively.
2011-2012	<i>Junior Admin</i> , Skilz UK Ltd. Data handling and entry on a strict time scale, Designing and maintaining a system for the efficient and organised storage of the company's digital records.

Relevant Skills

- Familiarity with the Python programming language.
- Comfortable with the Vienna Ab initio Simulation Package.
- Comfortable with PC, Linux Systems and Mac OS.
- Comfortable with Microsoft Office Package.
- Proficient in LaTeX typesetting system.

Referees

Dr. Benjamin Morgan (Ph.D. Supervisor)
Royal Society University Research Fellow,
Department of Chemistry,
University of Bath,
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Dr. David Scanlon (Master's Supervisor)
Reader in Computational Materials and
Inorganic Chemistry,
Department of Chemistry,
University College London,
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London,
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