Lee Alan Burton			
Personal Details			
Nationality: Email Address: Telephone: Office Address: Google Scholar Profile: Linkedin Profile:	British lee.burton@uclouvain.be +32 484 26 11 57 Chemin des Étoiles 8 bte L7 https://scholar.google.com/c http://uk.linkedin.com/pub/le	7.03.01 à 1348 Louvain-la citations?user=fEp-jzkAA	
Professional Profile			
Professional Status: Professional Affiliations: Research Experience: International Experience: Languages:	 International Research Fellow (full time). Member of the Royal Society of Chemistry. "Move in" Research Fellow, Université Catholique de Louvain, Belgium. "JSPS" Research Fellow, Tokyo Institute of Technology, Japan. Visiting Scholar, Harvard University, Boston, Massachusetts, USA. Research Intern, Australian Antarctic Division, Tasmania, Australia. Summer Intern, Department of Chemistry, University of Warwick, UK. UK, Australia, France, USA, Japan, Belgium. English (native), French (conversational), Japanese (level 1), British Sign Language (level 1). 		
Qualifications			
Doctoral Qualification: Undergraduate Degree: Other Qualifications:	PhD in Sustainable Chemical Technologies, University of Bath, UK. Master of Chemistry (Hons), University of Warwick, UK. Master of Research (Merit), University of Bath, UK. Diplôme d'Études en Langue Française (B1), Université Catholique de Louvain		
Key Skills Summary			
 Project and data management, task delegation, problem solving and international collaboration. Programming proficiency in Python 2/3, Bash and LaTeX languages. Project proposal, bid evaluation and persuasive/technical writing skills. Control of Substances Hazardous to Health (COSHH) and risk assessment practices. 			

- Numerical and technical analysis, software and computer literacy, 3D visualisation software.
- Budget management, resource allocation and account keeping.
- Multi-disciplinary teamwork, event organisation and laboratory management roles
- Presentation and teaching expertise, data formatting and demographic awareness.

Employment History

December 2016 to Present – Research Fellow, Université Catholique de Louvain, Belgium.

- Recipient of "Move-In Louvain" research fellowship funded by the EU Marie-Curie actions.
- Recipient of the European Commission Seal of Excellence award 2018.
- Invited speaker & session chair at European Materials Research Society (E-MRS) Conference, 2017.
- B1 level Diplôme d'Études en Langue Française (DELF) qualification obtained.
- Invited Speaker, "Out-Thinkers" event, British Science Festival, UK.
- 2 international patents pending, contribution purchased by Panasonic Corporation.
- 2 research articles published so far, including use of high-throughput computing on all known materials.
- Mentor of PhD student on project applying cutting-edge simulation procedures to photovoltaics.
- Tutorial leader on database querying & high-throughput screening at Materials Research Society (MRS) Spring Meeting 2018

November 2014 to November 2016 – Japanese Society for the Promotion of Science (JSPS) International Research Fellow, Kyoto University and Tokyo Institute of Technology, Japan.

- Royal Society (UK) nominated candidate for maximally funded 2-year research fellowship.
- Equal shareholder on international patent for 11 novel semiconductors (number WO/2017/065294).
 - Personal contribution included use of evolutionary algorithms for structure prediction and

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development of high-throughput analysis method for undiscovered materials.

- Speaker at four international conferences and invited contribution to international workshop.
- Five research article publications in high impact, peer reviewed research journals published including Nature Communications and Physical Review Letters.
- Japanese language classes and culture engagement activities attended throughout the fellowship.
- Volunteer participant of JSPS Science Dialogue program: lecturing at senior high schools (ages 15-17).

October 2010 to October 2014 – Doctoral Student, Centre for Sustainable Chemical Technologies, University of Bath, UK.

- Multi-disciplinary PhD funded by Engineering and Physical Sciences Research Council scholarship.
 - Six publications in peer reviewed research journals with international collaborators.
 - Three oral presentations at international conferences including an invited talk at the International Union of Materials Research Societies Conference, 2011.
 - Presented with Award for Encouragement of Materials Research Science by the Japanese Materials Research Society.
 - Over 2,000 GBP in external grant money and bursary awards.
- Laboratory custodian of Solar Instrument Room, Building 3 South, Department of Chemistry.
 - Developed control and safety standards for contemporary lab space.
 - Implemented training and operating protocols for hazardous experimental procedures.
- Public engagement and ambassadorial roles for the Centre for Sustainable Chemical Technologies.
 - Elected Ambassador to the UK Energy Research Network for the Bath graduate school.
 - Invited speaker for the British Science Association's 'Science Café' public presentation.
 - University of Bath STEM (Science, Technology, Engineering and Mathematics) ambassador.
- Casual Demonstrator and teaching assistant.
 - Communication and interpersonal skills deployed across various levels of expertise.

December 2013 to May 2014 – Events Manager, "Pint of Science" festival, Bath, UK.

- Theme leader of 'Planet Earth' section, Bath chapter, for international science festival 'Pint of Science'.
- Responsibilities included: budget allocations, costing, talk selection and program design.

November 2013 to April 2014 – Conference Organiser, Royal Society of Chemistry (RSC) Meeting, Chicheley Hall, Buckinghamshire, UK.

- Organising committee member for the RSC, Solid State Group Easter Meeting, Buckinghamshire, UK.
- Responsibilities included: budget allocations, costing, talk selection and program design.

July 2013 to December 2013 – Visiting Scholar, Harvard University, Boston, MA, USA.

- Established international collaboration between the University of Bath (UK), Harvard University (USA) and the Massachusetts Institute of Technology (USA).
- Involved multiple visits between UK & USA, confidential data handling and regular teleconferencing.

October 2010 to September 2011 – Master of Research, University of Bath, Bath, UK.

• A post-graduate degree with taught courses and 2 research projects: cathode materials for lithium ion batteries and porous materials for hydrogen storage.

April 2009 to September 2009 – Research Intern, University of Tasmania, TAS, Australia.

• Designed/built 2-D gas chromatography suite to analyse oil spills for Australian Antarctic Division.

References on Request

Professor Aron Walsh, Profess

Royal School of Mines, Imperial College London, London, SW7 2BP United Kingdom a.walsh@imperial.ac.uk +44 (0)20 7594 1178 Professor Fumiyasu Oba Laboratory for Materials & Structures, Tokyo Institute of Technology, Yokohama 226-8503 Japan oba@msl.titech.ac.jp +81 (0)45-924-5511 Doctor David Scanlon Christopher Ingold Building, University College London, London, WC1H 0AJ United Kingdom d.scanlon@ucl.ac.uk

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