63 St. Albans Road, Westbury Park, Bristol, BS6 5SG

Email: Bernard.Mason@bristol.ac.uk

Business Phone: 07936416870

##### Research Experience and Education

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| **PH. D.** | **01/2011 – Current** |

University of Bristol, Aerosol Dynamics Group, Professor Jonathan Reid Laboratory

* + Assessed cavity ring down spectroscopy for the refractive index retrieval of aerosol ensembles. Used a tandem DMA to size select particles and a cavity ring down instrument to measure the optical properties of the aerosol ensemble. Intended finish date – 07/2014.

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| **M.Sci. – CHEMISTRY** | **09/2007 – 07/2010** |

University of Bristol, Bristol, United Kingdom

* Final year research project: synthesized several heterogeneous palladium and platinum catalyst analogues. Use of inert gas synthetic techniques for handling pyrophoric materials.

##### Software and Programming Languages

I have extensive computer experience. Programs with which I am familiar include, but not limited to:

Scifinder Scholar, EndNote, Corel Draw 10, ChemOffice, Microsoft Office, LabView (visual language), Matlab and Scilab (written languages)

##### Publications

1. B.J. Mason, S.-J. King, R.E.H. Miles, K.M. Manfred, A.M.J. Rickards, J. Kim, J.P. Reid and A.J. Orr-Ewing 'Comparison of the Accuracy of Aerosol Refractive Index Measurements from Single Particle and Ensemble Techniques' *Journal of Physical Chemistry A* 116, 2012, 8547–8556.

##### Honours and Awards

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| £350 | Travel grant from the Aerosol society for attending the European Aerosol Conference in Granada | 2012 |

##### Teaching Activities

Laboratory Demonstrator

University of Bristol, Chemistry Department 09/2011-Current

* Demonstrated weekly laboratory sessions to groups of sixteen first year undergraduate students.
* Taught, marked and provided feedback each week.

##### Extracurricular Activities

* I have written several programs in my spare time in order to make my life easier at work; I have written scripts to automatically analyze data.
* I played squash competitively at university finishing first in an internal league.
* I am a keen musician playing saxophone, classical guitar and bass.
* I enjoy cooking for friends and hosting parties.