

**Current Position:** Consultant with Air Quality Consultants Ltd.

**Qualifications:** BSc (Hons) Mathematical Physics  
MSc Astronomy  
PhD Applied Mathematics

**Positions Held:** Member of the Institute of Physics

## Key Experience:

Prior to joining Air Quality Consultants, Imogen worked as a dispersion scientist at the UK Met Office where she modeled the long-range transport of pollutants in the atmosphere. Imogen now works in the field of air quality modelling, monitoring and assessment. She has undertaken air quality assessments for a range of development projects, assessing a variety of pollution sources both qualitatively and quantitatively, with most assessments involving dispersion modelling using the ADMS-Roads and ADMS 5 atmospheric dispersion models. Specific examples include road schemes, urban extensions, energy centres, and a range of residential and commercial developments. In addition to modelling assessments, Imogen has undertaken construction dust risk assessments and assessments of the air quality neutrality of developments within London. Imogen has also been involved in the analysis and interpretation of air quality data and in review and assessment work for local authorities.

## Employment Record:

2013 – Date: **Consultant, Air Quality Consultants Ltd.**  
Preparation of air quality assessments for a wide range of sources and pollutants, across the UK.

2009 – 2013: **Dispersion Scientist, UK Met Office**  
Responsible for modelling the transport of material using the Met Office's Numerical Atmospheric-dispersion Modelling Environment (NAME).

## Residential Developments

### **Air Quality Assessment for a Residential-led Development in Bath (2015)**

Responsible for the preparation of the Air Quality chapter of an EIA for a residential-led, mixed-use development in Bath. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Residential Development in Wellesbourne, Stratford-on-Avon (2015)**

Responsible for the preparation of an air quality assessment for a residential development in Wellesbourne. Included compiling, running and analysing data for the ADMS Roads model, and preparing a detailed report.

### **Air Quality Assessment for a Residential Development in the London Borough of Lewisham (2015)**

Responsible for the preparation of an air quality assessment for a residential development in Lewisham.

### **Air Quality Assessment for a Residential Development in Ipswich (2015)**

Responsible for the preparation of the Air Quality chapter of an EIA for a residential development in Ipswich. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Residential-led Development in Guildford (2015)**

Responsible for the preparation of the Air Quality chapter of an EIA for a residential-led development in Guildford, including CHP impacts. Included compiling data for, and running, the ADMS Roads and ADMS 5 models, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Residential Development in Lydney, Foprest of Dean (2015)**

Responsible for the preparation of the Air Quality chapter of an EIA for a residential development in Lydney. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Residential Development in the London Borough of Camden (2015)**

Responsible for the preparation of an air quality assessment for a residential development in Camden. Included compiling, running and analysing data for the ADMS Roads model, construction dust and Air Quality Neutral assessments, and preparation of a detailed report.

### **Air Quality Assessment for Student Accommodation in the London Borough of Lewisham (2015)**

Responsible for the preparation of an air quality assessment for student accommodation in Lewisham. Included compiling, running and analysing data for the ADMS Roads model, construction dust and Air Quality Neutral assessments, and preparation of a detailed report.

### **Air Quality Assessment for a Residential Development in the London Borough of Brent (2015)**

Responsible for the preparation of an air quality assessment for a mixed-use development in Brent. Included compiling, running and analysing data for the ADMS Roads model, construction dust and Air Quality Neutral assessments, and preparation of a detailed report.

### **Air Quality Assessment for a Residential Development in the London Borough of Islington (2014)**

Responsible for the preparation of an air quality assessment of a proposed residential development in Islington. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Residential Development in Salisbury, Wiltshire (2014)**

Responsible for the preparation of an air quality assessment of a proposed residential development in Salisbury. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Residential Development in the London Borough of Tower Hamlets (2014)**

Responsible for the preparation of an air quality assessment of a proposed residential development in Tower Hamlets. Included compiling, running and analysing data for the ADMS Roads model, an Air Quality Neutral assessment, and preparation of a detailed report.

### **Air Quality Assessment for a Residential Development in Tiddington, Stratford-upon-Avon (2014)**

Responsible for the preparation of an air quality assessment of a proposed residential development in Tiddington. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Residential Development in the London Borough of Southwark (2014)**

Responsible for the preparation of an air quality assessment of a proposed residential development in Southwark. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Residential-led Development in the London Borough of Southwark (2014)**

Responsible for the preparation of an air quality assessment of a proposed residential-led development in Southwark. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Residential Development in Rotherham (2014)**

Responsible for the preparation of an air quality assessment of a proposed residential development in Rotherham. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Residential Development in Northampton (2014)**

Responsible for the preparation of an air quality assessment of a proposed residential development in Northampton. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment of a Proposed Residential Development in the Newcastle (2014)**

Responsible for the preparation of an air quality assessment of a proposed residential development in Newcastle. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Residential-led Development in Ipswich (2014)**

Responsible for the preparation of the Air Quality chapter of an EIA for a residential-led development in Ipswich. Included compiling data for, and running, the ADMS Roads model, analysing the output, a construction dust assessment, and preparing a detailed report.

### **Air Quality Assessment of a Proposed Residential Development in the London Borough of Ealing (2014)**

Contributed to the preparation of an air quality assessment of a proposed residential development in Ealing. Included compiling, running and analysing data for the ADMS Roads model and preparing a detailed report.

### **Air Quality Assessment of a Proposed Residential Development in Stobhill, Morpeth (2013)**

Contributed to the preparation of an air quality assessment of a proposed residential development in Stobhill. Included compiling, running and analysing data for the ADMS Roads model.

## Commercial Developments

### **Air Quality Assessment for a Retail Park in Rotherham (2014)**

Responsible for the preparation of an air quality assessment of a proposed retail park in Rotherham. Included compiling, running and analysing data for the ADMS Roads model and preparing a detailed report.

### **Construction Dust Assessment of a Proposed Commercial Development in Crewe, Cheshire East (2013)**

Contributed to the preparation of a construction dust assessment following Institute of Air Quality Management guidance. Included mitigation requirements.

## **Mixed-use Developments**

### **Air Quality Assessment for a Mixed-use Development in the London Borough of Hounslow (2015)**

Responsible for the preparation of an air quality assessment for a mixed-use development in Hounslow. Included compiling, running and analysing data for the ADMS Roads model, construction dust and Air Quality Neutral assessments, and preparation of a detailed report.

### **Air Quality Assessment for a Mixed-use Development in the London Borough of Wandsworth (2015)**

Responsible for the preparation of an air quality assessment for a mixed-use development in Wandsworth, including CHP impacts. Included compiling, running and analysing data for the ADMS Roads and ADMS 5 models, construction dust and Air Quality Neutral assessments, and preparation of a detailed report.

### **Air Quality Assessment for a Mixed-use Development in the London Borough of Tower Hamlets (2015)**

Responsible for the preparation of an air quality assessment for a mixed-use development in Tower Hamlets, including CHP impacts. Included compiling, running and analysing data for the ADMS Roads and ADMS 5 models, construction dust and Air Quality Neutral assessments, and preparation of a detailed report.

### **Air Quality Assessment for a Mixed-use Development in the London Borough of Redbridge (2014)**

Responsible for the preparation of an air quality assessment of a proposed supermarket and residential apartments in the London Borough of Redbridge. Included compiling, running and analysing data for the ADMS Roads model, an Air Quality Neutral assessment, and preparing a detailed report.

### **Air Quality Assessment of a Proposed Mixed-use Development in Chichester (2014)**

Responsible for the preparation of an air quality assessment of a proposed mixed-use development in Chichester. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Mixed-use Development in Trowbridge, Wiltshire (2014)**

Contributed to the preparation of the Air Quality chapter of an EIA for a mixed-use development in Trowbridge. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment of a Proposed Mixed-use Development in Dorchester, West Dorset (2013)**

Responsible for the preparation of an air quality assessment of a proposed mixed-use development in Dorchester, West Dorset.

### **Air Quality Assessment of a Proposed Mixed-use Development in the London Borough of Ealing (2013)**

Contributed to the preparation of an air quality assessment of a proposed mixed-use development in Greenford, Ealing. Included compiling data for, and running, the ADMS Roads model and analysing the output.

### **Air Quality Assessment of a Proposed Mixed-use Development in the London Borough of Camden (2013)**

Contributed to the preparation of an air quality assessment of a proposed mixed-use development in Camden. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

## Other Air Quality Assessments

### **Air Quality Assessment for a Revised Road Junction, Stratford-upon-Avon (2015)**

Responsible for the preparation of an air quality assessment for a new road-junction layout in Stratford-upon-Avon. Included compiling, running and analysing data for the ADMS Roads model, and preparing a detailed report.

### **Air Quality Assessment for a Medical Centre in Wellesbourne, Stratford-on-Avon (2015)**

Responsible for the preparation of an air quality assessment for a medical centre in Wellesbourne. Included compiling, running and analysing data for the ADMS Roads model, and preparing a detailed report.

### **Air Quality Assessment for Primary Schools in the London Borough of Waltham Forest (2014)**

Responsible for the preparation of air quality assessments for the proposed expansion of three primary schools in Waltham Forest. Included compiling, running and analysing data for the ADMS Roads model.

### **Air Quality Assessment for a Laboratory in Mytchett, Surrey (2014)**

Responsible for the preparation of an air quality assessment for an extension to an electronics laboratory in Mytchett.

### **Air Quality Assessment for an Industrial and Commercial Development in Farnborough, Rushmoor (2014)**

Responsible for the preparation of an air quality assessment of a proposed industrial and commercial development in Farnborough.

### **Air Quality Assessment for a Waste Transfer Station in Wareham, Purbeck (2014)**

Responsible for the preparation of an air quality assessment of a proposed waste transfer station in Wareham, including impacts on sensitive ecosystems. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Hotel in the London Borough of Lambeth (2014)**

Responsible for the preparation of an air quality assessment of a proposed hotel in Lambeth.

### **Air Quality Assessment for a Carpark in Wyebriidge, Monmouthshire (2014)**

Responsible for the preparation of an air quality assessment of a proposed carpark in Wyebriidge. Included compiling data for, and running, the ADMS Roads model, analysing the output and preparing a detailed report.

### **Air Quality Assessment for a Hotel in Northampton (2014)**

Contributed to the preparation of an air quality assessment of a proposed hotel in Northampton.

### **Air Quality Assessment for the Goodwood Revival Festival in Goodwood, West Sussex (2014)**

Contributed to the preparation of an air quality assessment for the Goodwood Revival Festival in Goodwood.

## Local Air Quality Management Review and Assessment

### **2014 Air Quality Progress Report for the London Borough of Hounslow**

Responsible for the preparation of the 2014 Air Quality Progress Report for Hounslow.

## Miscellaneous

### **A Comparison of Atmospheric Dispersion Model Predictions with Observations of SO<sub>2</sub> and Sulphate Aerosol from Volcanic Eruptions (2012)**

Heard, I. P. C., A. J. Manning, J. M. Haywood, C. Witham, A. Redington, A. Jones, L. Clarisse, and A. Bourassa, J. Geophys. Res., 117, D00U22, doi:10.1029/2011JD016791.

**Operational Prediction of Ash Concentrations in the Distal Volcanic Cloud from the 2010 Eyjafjallajökull Eruption (2012)**

Webster, H. N., D. J. Thomson, B. T. Johnson, I. P. C. Heard, et al., J. Geophys. Res., 117, D00U08, doi:10.1029/2011JD016790.

**Modelling of PM<sub>10</sub> Transport Across the Atlantic (2010)**

Responsible for the preparation of a report on the possible impact of PM<sub>10</sub> from the US on the UK and Europe.