

## People

### [Dr Mohamed A. Abdallah \(/schools/gees/people/profile.aspx?Referenceld=66440\)](/schools/gees/people/profile.aspx?Referenceld=66440)

Marie-Curie Research Fellow

Dr Mohamed Abdallah has a wide experience in applying various mass spectrometric techniques for analysis of trace levels of environmental contaminants in biotic and abiotic matrices including different human tissues. He has also made contributions to the field of human exposure to persistent organic pollutants using various exposure and pharmacokinetic models.

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### [Dr Salim Alam \(/schools/gees/people/profile.aspx?Referenceld=31437\)](/schools/gees/people/profile.aspx?Referenceld=31437)

Research Fellow

Dr Alam's research focuses on understanding the chemistry of key atmospheric pollutants. His research involves interpreting laboratory and field measurements using numerical modelling, and improving the accuracy of chemistry within atmospheric models.

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### [Dr David Beddows \(/schools/gees/people/profile.aspx?Referenceld=3946\)](/schools/gees/people/profile.aspx?Referenceld=3946)

NCAS Researcher

David is staff member of the National Center of Atmospheric Sciences (NCAS) working at Birmingham University. His interests are in the research and development of scientific instrumentation, novel multivariate data analysis algorithms and atmospheric modelling tools used for the interpretation of data collected from atmospheric aerosols.

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### [Dr William Bloss \(/schools/gees/people/profile.aspx?Referenceld=3950\)](/schools/gees/people/profile.aspx?Referenceld=3950)

Reader in Atmospheric Science  
Deputy Head of School

My research is in the field of Air Pollution / Atmospheric Chemistry - understanding the chemical processes which control the current and future composition of our atmosphere. We approach these problems through a combination of field measurements of atmospheric constituents, laboratory studies of specific systems, and modelling simulations for comparison with observations. [See my ... \(http://www.atmos.bham.ac.uk/\)](http://www.atmos.bham.ac.uk/)

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### [Maurice Brennan \(/schools/gees/people/profile.aspx?Referenceld=3901\)](/schools/gees/people/profile.aspx?Referenceld=3901)

Honorary Senior Lecturer

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### [Dr Xiaoming Cai \(/schools/gees/people/profile.aspx?Referenceld=10025\)](/schools/gees/people/profile.aspx?Referenceld=10025)

Senior Lecturer

Dr Xiaoming Cai has over 20 years experience of research in large-eddy simulation (LES) of turbulence in the atmospheric boundary layer and in urban street canyons, dispersion of air pollutants in urban environment, and numerical modelling of meso-scale systems.



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**[Dr Lee Chapman](/schools/gees/people/profile.aspx?Referenceld=10026)**

Reader in Climate Resilience  
Director of Impact and Innovation



[\(/university/colleges/les/research-gallery/lee-chapman.aspx\)](/university/colleges/les/research-gallery/lee-chapman.aspx) Dr Lee Chapman's research interests are at the interface of climatology and engineering investigating *the impact of weather and climate on the built environment*; an important research area given the ever-increasing concentration (and vulnerability) of the population and critical infrastructure in urban areas. This covers a range of topics and sub-disciplines including ...

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**[Dr Leigh Crilley](/schools/gees/people/profile.aspx?Referenceld=69357)**

Research Fellow in Atmospheric Chemistry

Leigh Crilley is a chemist specializing in the field of air pollution/atmospheric chemistry. His current research involves investigating the rate of ozone production in the boundary layer using in situ field measurements

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**[Dr Juana Maria Delgado-Saborit](/schools/gees/people/profile.aspx?Referenceld=8824)**

Lecturer in Environmental Health

Dr Delgado-Saborit is an expert in exposure assessment studies using different sampling and analytical techniques to characterize inhalation doses, personal exposures and environmental levels of air pollutants. She has expertise in chemical speciation for source identification. She has coordinated large projects involving recruiting and sampling with subjects, sampling in a wide range of ...

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**[Professor Stuart Harrad](/schools/gees/people/profile.aspx?Referenceld=9684)**

Professor of Environmental Chemistry

Stuart is an environmental chemist whose research addresses all aspects of the environmental sources, fate and behaviour of persistent organic pollutants (POPs). He has particular interests in human exposure to POPs with a focus on indoor pathways. He is also active in research that explores the environmental forensics utility of chirality.

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**[Professor Roy Harrison OBE](/schools/gees/people/profile.aspx?Referenceld=3929)**

Queen Elizabeth II Birmingham Centenary Professor of Environmental Health

Roy Harrison's research interests lie in the field of environment and human health. His main specialism is in air pollution, from emissions through atmospheric chemical and physical transformations to exposure and effects on human health. Much of this work is designed to inform the development of policy.

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**[Dr Alan Jones](/schools/gees/people/profile.aspx?Referenceld=10178)**

Research Fellow

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**[Professor Jamie Lead](/schools/gees/people/profile.aspx?Referenceld=9691)**

Professor of Environmental Nanoscience and Director the Facility of Environmental Nanoscience Analysis and Characterisation

Professor Jamie Lead's research aims to understand nanoscale phenomena in the environment and he is interested in investigating natural nanomaterials, manufactured nanomaterials and their interaction. He is Director of **FENAC (Facility of Environmental Nanoscience Analysis and Characterisation)** (</facilities/fenac/index.aspx>).



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**[Dr Gregor C. Leckebusch \(/schools/gees/people/profile.aspx?Referenceld=20916\)](/schools/gees/people/profile.aspx?Referenceld=20916)**

Senior Lecturer in Meteorology and Climatology

Dr Gregor Leckebusch is one of the foremost experts in the field of linking natural science research on meteorological and climatological extreme events with the estimation of natural hazards damage potentials. He played a key role in several national and international interdisciplinary projects dedicated to the assessment of natural and anthropogenic changes in extreme events and impacts of ...

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**[Dr Iseult Lynch \(/schools/gees/people/profile.aspx?Referenceld=56477\)](/schools/gees/people/profile.aspx?Referenceld=56477)**

Lecturer in Environmental Nanosciences

Dr Iseult Lynch joined the academic staff at the University of Birmingham as Lecturer in Environmental Nanosciences in March 2013. She has a very broad overview of all aspects of nanomaterials safety assessment and the data requirements, having served as Chair of the EU Nanosafety Cluster Working Group (NSC WG) on databases for the last 2 years (and as co-Chair of the Hazed WG prior to ...

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**[Dr Yuning Ma \(/schools/gees/people/profile.aspx?Referenceld=69048\)](/schools/gees/people/profile.aspx?Referenceld=69048)**

Marie Curie Research Fellow

Dr Ma's current research focuses on evaluation of indoor dust as a pathway of human exposure to persistent organic compounds.

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**[Professor Rob MacKenzie \(/schools/gees/people/profile.aspx?Referenceld=24425\)](/schools/gees/people/profile.aspx?Referenceld=24425)**

Director, Birmingham Institute of Forest Research  
Professor of Atmospheric Science



[\(/university/colleges/les/research-gallery/rob-mackenzie.aspx\)](/university/colleges/les/research-gallery/rob-mackenzie.aspx) Rob MacKenzie is an atmospheric scientist with a particular interest in how plants affect air composition. Watch a video of him describing one aspect of his research in 60 seconds by clicking on the play icon above.

As a result of a £15M grant, the University of Birmingham has set up the Birmingham Institute of Forest Research (BIFoR), of which Rob ...

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**[Dr Catherine L. Muller \(/schools/gees/people/profile.aspx?Referenceld=22645\)](/schools/gees/people/profile.aspx?Referenceld=22645)**

Research Fellow  
(Guest Lecturer)

Dr Catherine Muller is currently working on the NERC-funded 'HiTemp' project examining Birmingham's urban heat island using a dense network of air temperature sensors which forms part of the [Birmingham Urban Climate Laboratory \(BUCL\)](http://www.bucl.org.uk) (<http://www.bucl.org.uk>), along with a number of TSB-funded projects utilising the data from this network as well as crowdsourcing side-projects. During her ...

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**[Mike Newland \(/schools/gees/people/profile.aspx?Referenceld=75510\)](/schools/gees/people/profile.aspx?Referenceld=75510)**

Postdoctoral Research Fellow

Mike Newland is a post-doctoral researcher in atmospheric chemistry. His current work focuses on oxidation mechanisms in the troposphere.

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**[Dr Ian Phillips \(/schools/gees/people/profile.aspx?Referenceld=9695\)](/schools/gees/people/profile.aspx?Referenceld=9695)**

Teaching Fellow

Ian Phillips is best known for writing the most comprehensive account of the 1973 Isle of Man Summerland fire disaster. He gained his BSc



Geography degree from the University of Birmingham in 1995, before continuing at the University to complete an MSc in Meteorology and Climatology and a PhD in Geography. Ian has been on the teaching staff of the University since September ...

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### [Dr Francis Pope \(/schools/gees/people/profile.aspx?ReferencId=38500\)](/schools/gees/people/profile.aspx?ReferencId=38500)

Lecturer  
Birmingham Fellow

Francis is a chemist with wide ranging interests in the atmospheric sciences. He applies a fundamental physicochemical approach to investigate atmospheric species and develops novel instrumentation to probe their processes.

In particular he is interested in: the assessment of geoengineering schemes, primary biological aerosols and their role in atmosphere-biosphere ...

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### [Dr Isabella Romer Roche \(/schools/gees/people/profile.aspx?ReferencId=73435\)](/schools/gees/people/profile.aspx?ReferencId=73435)

Research Fellow

Dr Isabella Romer Roche is working with Eva Valsami-Jones in the NanoMILE project. She has wide experience in the synthesis and characterisation of nanoparticles, especially silver, working with a multimethod approach. Her work also includes stability of nanoparticles in environmentally relevant conditions.

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### [Dr Zongbo Shi \(/schools/gees/people/profile.aspx?ReferencId=21312\)](/schools/gees/people/profile.aspx?ReferencId=21312)

Birmingham Fellow (Research Focused Lecturer)  
NERC Research Fellow

Dr Zongbo Shi has a research interest in Atmospheric Aerosol Chemistry and Global Biogeochemical Cycles. He is currently funded by the NERC (Natural Environment Research Council) fellowship scheme; he also holds a Birmingham University Fellowship.

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### [Dr Rick Thomas \(/schools/gees/people/profile.aspx?ReferencId=68633\)](/schools/gees/people/profile.aspx?ReferencId=68633)

Research Fellow

Dr Rick Thomas is a measurement scientist specializing in the use of novel instrumentation for climate and air quality research. At Scripps Institution of Oceanography, he recently developed a turbulent flux measurement package to resolve ambient 3D wind vectors from an unmanned aerial vehicle (UAV) and successfully used it alongside aerosol, cloud and water probes to investigate aerosol-cloud ...

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### [Professor Eugenia \(Éva\) Valsami-Jones \(/schools/gees/people/profile.aspx?ReferencId=31937\)](/schools/gees/people/profile.aspx?ReferencId=31937)

Chair in Environmental Nanoscience  
Director of Research  
Director of FENAC

 [\(/university/colleges/les/research-gallery/eva-valsami-jones.aspx\)](/university/colleges/les/research-gallery/eva-valsami-jones.aspx) Professor Valsami-Jones' research interests focus on understanding reactivity at the nanoscale, particularly interactions of nanoparticles with pollutants and biota and biomineralisation processes. She has carried out research on the interaction of a variety of carbon- and metal-based nano-objects with biota in vitro and in vivo and has pioneered novel methods of labelling ...

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### [Dr Martin Widmann \(/schools/gees/people/profile.aspx?ReferencId=10968\)](/schools/gees/people/profile.aspx?ReferencId=10968)

Senior Lecturer in climate science

Dr Martin Widmann is a climate scientist. His current main research area is regional climate change, in particular the development and validation of statistical downscaling methods. He also studies past climates; the main activity in this field is the development of data assimilation methods to combine climate simulations with empirical knowledge from proxy data.

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### [Dr Jianxin Yin \(/schools/gees/people/profile.aspx?ReferencId=9355\)](/schools/gees/people/profile.aspx?ReferencId=9355)

Research Fellow



Dr Jianxin Yin is one of the experts in the field of atmospheric aerosol monitoring and characterisation. She has gained tremendous experiences during the past 13 years of research on use of modern aerosol field monitoring and modern laboratory analytical equipment and on air quality data analyses and modelling.



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