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Jian Zhong

Doctoral Researcher

School of Geography, Earth and Environmental Sciences (/schools/gees/index.aspx)

Contact details

Email zxj160@bham.ac.uk (mailto:zxj160@bham.ac.uk)

School of Geography, Earth and Environmental Sciences
University of Birmingham
Edgbaston
Birmingham
B15 2TT
UK

About

Title of PhD: Modelling Air Pollution within a Street Canyon

Supervisors: Dr Xiaoming Cai (/staff/profiles/gees/cai-xiaoming.aspx) and Dr William Bloss (/staff/profiles/gees/bloss-william.aspx)

Jian Zhong is undertaking doctoral research into Modelling Air Pollution within a Street Canyon. He is applying a novel numerical tool called large-eddy simulation to turbulent dispersion of air pollutants with fast photochemical reactions. He is trying to investigate how the street canyon aspect ratio, background wind, and solar angles influence the concentrations and the spatial patterns of key photochemical oxidants (O3, NO2, OH, H2O etc.).

Qualifications

B.Sc.(Hons), 2006-2010 - Safety Engineering, Central South University, P.R. China

Ph.D. 2010 - Safety Technology and Engineering, Central South University, P.R. China

Ph.D. 2011 - Geography & Environmental Science, University of Birmingham,UK

Biography

Jian Zhong obtained his bachelor degree at the Central South University, Changsha, P.R. China. After graduation in 2010, he was admitted as a Ph.D. student at the Central South University directly, waived of admission examination. One year later, he entered the University of Birmingham, undertaking his Ph.D. in Geography & Environmental Science.

Research

Research interests

Environmental Health, Air pollution & modelling

Publications

Zhong J. and Wu C. 2011.Certification in American Professional Ergonomics and practical requirement. Modern Occupational Safety (China), (1), 100-105.

Zhong J., Wu C. and Huang R. 2012. Aerodynamic measurement model of the micro-particle adhesion force. Journal of Central South University (China), 43(1):287-292.

Zhong J. and Wu C. 2012. Progress of Micro-particle Adhesion Force Measurement Techniques. Science & Technology Review (China), 30(3):5-11.

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