Baihuiqian (Vera) He

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Objective

Python

Confident with modelling atmospheric pollutants at urban scale and with running atmospheric chemistry transport models, I am seeking an opportunity to develop and implement a novel local scale dispersion model of an atmospheric chemistry transport model using uEMEP, and to produce new scientific findings and develop mitigation strategies.

Computer	/Techno	ology S	ikills
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GIS Shell

Models

ADMS-Urban Land-use Regression

Professional Experience

Atmospheric Model Data Analyst

Oct 2019 to present

EMEP

uEMEP

- Running the atmospheric chemistry transport model EMEP4UK and its local scale model uEMEP for cities in the UK
- Analysing model outputs and validating the results with measurements
- Documenting uEMEP running processes
- · Preparing relevant reports and papers

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PhD Atmospheric Chemistry	University of Edinburgh	Sep.2016-present
MSc Environmental Protection	University of Edinburgh	Sep.2014-Sep.2015
and Management		
BSc Environmental and	University of Edinburgh	Sep.2012–May 2014
Sustainable Chemistry		
Chemical Engineering	Dalian University of	Sep.2010-Jul.2012
	Technology	

Peer-reviewed publications

He, B.; Heal, M.R.; Reis, S. Effects of future emission control on NO₂ concentration in Guangzhou [under review]

He, B.; Heal, M.R.; Reis, S. A hybrid model approach for estimating health burden from NO₂ in megacities in China: a case study in Guangzhou Environmental Research Letter 2019, 14, 12 He, B.; Heal, M.R.; Reis, S. Land-Use Regression Modelling of Intra-Urban Air Pollution Variation in China: Current Status and Future Needs. Atmosphere 2018, 9, 134