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Born 1971

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Employment

2011 - Present	Independent Consulting Engineer
2014	Flood Risk Modelling and Mapping Technical Specialist, Philippines/Voluntary Service Overseas
2010-2011	Local Government Watershed Management Advisor, Indonesia/Voluntary Service Overseas
2007-2010	Specialist Modeller, Halcrow Group Ltd.
2005-2006	Lecturer in Civil Engineering, University of Bristol.
2001-2007	Consultant, Geostandards Ltd.
2001-2004	NERC Research Fellow, University of Leeds and University of Bristol
1998-2001	Post-doctoral Research Fellow, University of Bristol

Expertise

An experienced chartered engineer, researcher and scientific programmer, working as an independent consultant developing approaches to environmental and flood risk management in the UK and abroad. 20 years' experience in research and development in industry and universities; extensive experience in technical training; developing practical solutions for flood risk management for a wide range of clients and applications; and experience of working with development NGOs in Indonesia and the Philippines. Expert in hydraulic modelling, hydrology, statistics, joint probability analysis, GIS and remote sensing.

Recent Jobs

Technical lead on flood risk mapping and climate adaptation for *EO-enabled Decision Support for Flood and Drought Resilience in Kenya and Ethiopia* Project for UK Space Agency

Technical lead on economic tools and appraisal for Natural Resources Wales National Flood Risk Assessment, allowing rapid national scale assessments of climate impacts and adaptation strategies.

Provided hydraulic modelling, hydrology and flood risk assessment for many Rivers Trust projects involving weir removal, channel works and fish pass design

Flood risk assessments and culvert/drainage design using 1D and 2D modelling for sites throughout the UK

Winner of innovation award in Defra Flood Risk Management and Modelling Competition, for entry *Towards a flood resilient Eden Catchment, Cumbria*

Technical lead on Climate Change Risk Assessment for Committee on Climate Change, developing emulator to perform rapid national scale assessment of climate impacts and adaptation measures

Technical lead for Joseph Rowntree Foundation project *Flood Resilience in Disadvantaged Areas*, using emulator approach to combine flood risk and census information to highlight areas of flood disadvantage

Developed and applied MAST (Mapping All Sources Tool) for England Environment Agency to combine flood risk from difference sources; applied approach for Lincolnshire and Buckinghamshire local authorities

Developed statistical modelling approach for flood event set generation for insurance catastrophe modelling

Developed new linked surface-groundwater flood model for Innovate UK

Countries

Indonesia, Philippines, Brazil, China, Ireland, Malaysia, Ethiopia

Languages

English, Indonesian