

## **Dr. Sérgio D.N. Lourenço**

**Date of Birth 29/12/1976**

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### **APPOINTMENTS**

09/2008- Lecturer Engineering Geoscience, School of Earth and Ocean Sciences, Cardiff, University, UK  
2008 Geotechnical Engineer, Geotechnical Observations Ltd, London, UK  
2000-2001 Geotechnical Engineer, Sopecate Geotecnia SA, Lisbon, Portugal

### **EDUCATION**

2005-2008 PhD Geotechnical Engineering, School of Engineering, Durham University, UK, *Suction Measurements and Water Retention in Unsaturated Soils*  
2001-2004 MSc Research, Disaster Prevention Research Institute, Kyoto University, Japan, *A Study on the Factors Affecting the Initiation of Rainfall-Induced Landslides by Triaxial and Flume Tests*  
1994-2000 MEng Geological Engineering, Earth Sciences Department, Faculty of Sciences and Technology, New University of Lisbon, Portugal (1 year abroad University of Liège, Belgium)

### **RESEARCH INTERESTS**

Engineering Geoscience, Soil Wettability, Rainfall-Induced Landslides, Unsaturated Soils, Instrument Development

### **SCHOLARSHIPS**

2005-2008 EPSRC CASE with Wykeham Farrance Ltd (UK)  
2001-2004 Monbusho (Ministry of Education of Japan)  
1999-2000 ERASMUS Program (EU)

### **RESEARCH & TRAVEL GRANTS**

2011-2013 Japan Society for the Promotion of Science, *Triggering of landslides under extreme weather conditions and hazard mitigation*, PI Gong-Hui Wang - Disaster Prevention Research Institute, Kyoto University, Project Partner  
2011-2013 EPSRC First Grant, *The impact of water repellency on soil mechanics* IP/1008756/1 (Project Partner Swansea University) - £127k, PI  
2010 International Travel Grant, Royal Academy of Engineering, oral presentation UNSAT2010, Barcelona - £300, PI  
2010 Travel Bursary, Royal Microscopical Society, oral presentation Microscience2010, London - £100, PI  
2009-2010 Royal Society Research Grant, *A new instrument to measure positive and negative water pressure below cavitation in soils* RG090044 (Co-I Xiangwei Wang, Engineering, Cardiff) – £15000, PI  
2009-2010 Cardiff University International Collaboration Award, *Landslides triggered by the 2008 Wenchuan Earthquake, Sichuan, China* – £3500, PI

### **VISITING POSITIONS**

August 2011 Disaster Prevention Research Institute, Kyoto University, Japan, Host Dr Gong-Hui Wang

Summer 2012 Landslide Hazards Program, US Geological Survey, Host Dr Susan H. Cannon

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### **COLLABORATIONS**

Industry MSc (Halcrow), Research (Geotechnical Observations, Wykeham Farrance)  
Government Welsh Government  
Academic Christopher Morley (Chemistry, Cardiff), Stefan Doerr (Geography, Swansea), Robert Bryant (Chemical Engineering, Swansea), Gong-Hui Wang (Kyoto University), Susan Cannon (US Geological Survey)

### **SEMINARS**

August 2011 The impact of soil wettability on soil mechanics, Disaster Prevention Research Institute, Kyoto University  
October 2010 Soil wettability and soil mechanics: setting the context, School of the Environment and Society, Swansea University  
April 2009 Landslides triggered by the 2008 Wenchuan Earthquake, School of Earth and Ocean Sciences, Cardiff University

### **RESPONSIBILITIES**

Teaching Engineering Behaviour of Soils (MSc); Engineering Geology (Y3); contributions to Earth Skills (Y1), Water in the Environment (MSc) and Research Frontiers (Y4); Fieldtrips to South Wales (MSc)  
Supervision Clare Wakefield (Research Assistant); 23 MSc Students (2 Curry Fund Prizes for MSc students 2010 & 2011), 2BSc Students  
Workshop Geotechnical Risk Management with Halcrow, Geological Society and ICE  
Peer Review Engineering Geology (4), Environmental Earth Sciences (4), Water Resources Research (2), Géotechnique (1), Canadian Geotechnical Journal (1), Hydrological Processes (1), South East Geotechnical Engineering (non ISI) (1), African Journal of Agricultural Research (1), Natural Environment Research Council (1), 5<sup>th</sup> Asia-Pacific Conference on Unsaturated Soils (2)  
Administration MSc Open Day organization; Updated MSc website; Member MSc proposals working group; Admissions Assistant; Manager Soils Laboratory

### **PROFESSIONAL DEVELOPMENT**

09/2010 Short Course on Surface Chemistry, University of Bristol  
2008-2010 Postgraduate Certificate in University Teaching and Learning  
2008- Seminars: EPSRC Study Day, FP7 training day, Getting funded, Cardiff University