

## 2009 Newton International Fellows

Dr Shaikh Faruque Ali  
Dynamics and control of smart structural systems with uncertainty  
Swansea University

Dr Alexandra Alvergne  
Social influence on the diffusion of cultural innovation: the case of modern contraception  
University College London

Dr Nobuko Anan  
Playing with the West: parody in contemporary Japanese women's performance  
University of Warwick

Dr Mariya Bivolarska  
Microscopy of living cells using parallel plasmon enhanced photothermal microscopy  
University of Nottingham

Dr Matthew Blaschko  
Statistical learning approaches to semantic computer vision  
University of Oxford

Dr Vaclav Brozek  
Model checking problems for infinite state stochastic games  
University of Edinburgh

Dr Mirna Chahine  
The role of nuclear import in differentiation of the human embryonic stem cell derived cardiomyocyte  
Imperial College London

Dr Emmanuelle Crost  
Microbiota/host interactions in the human gut: role of *Ruminococcus gnavus* E1 in mucins' degradation  
Institute of Food Research

Dr Hanyin Cui  
Estimation of inclusion size and number distribution in liquid metals using ultrasonic methods  
University of Durham

Dr Omer Dushek  
Investigating signal initiation in T cell receptor clusters  
University of Oxford

Dr Goki Eda  
Large-area thin films from graphene  
Imperial College London

Dr Benoît Fauqué  
Nature of the electronic ground state of a 3D metal near the quantum limit  
University of Bristol

Dr Ariel Feldman  
Joshua and his texts in Second Temple times  
University of Manchester

Dr James Andrew Gillis  
Development and evolution of the vertebrate pharyngeal endoskeleton  
University of Cambridge

Dr Jörg Götte  
Displacing light beams with surface metamaterials  
University of Bristol

Dr Marcin Gruszecki  
Magnetohydrodynamic wave diagnostics of space plasmas  
University of Warwick

Dr Maria Rosa Guerrieri  
The role of nitrogen deposition in driving carbon uptake by forest ecosystems  
University of Edinburgh

Dr Zhipeng Guo  
Study of solidification dynamics under applied external physical fields  
University of Oxford

Dr Pedro Hallal  
Effects of early life exposures on physical activity and body composition throughout the lifespan  
Institute of Child Health

Dr Sridhar Hariharaputran  
An integrated network of metabotropic glutamate receptor interactions  
Royal Holloway, University of London

Dr Dong-Ku Kang  
High-throughput droplet-based microfluidic systems for analysis of protein-protein interactions  
Imperial College London

Dr Chenfeng Ke  
Towards glucose sensing with synthetic lectins  
University of Bristol

Dr Konstantinos Kostarakos  
The sensory-to-motor interface of cricket auditory behaviour  
University of Cambridge

Dr Pintu Kumar Mandal  
Novel carbohydrate inhibitors for bacterial toxins  
University of Leeds

Dr Fabiana Li  
Gold and glaciers: an ethnography of equivalence and incommensurability in the global economy  
University of Manchester

Dr Yixian Lin  
Early glass and pigments from Majiayuan Cemetery, Gansu, China  
University College London

Dr Amos Madhlopa  
Development of a dynamic model for computation of solar distribution in a double-slope solar still  
University of Strathclyde

Dr Tamar R Makin  
Functional consequences of multisensory plasticity following hand amputation in the human brain  
University of Oxford

Dr Sonali Nag  
Children at risk for reading difficulties in Kannada, an Indian alphasyllabary.  
University of York

Dr Pablo Navarro  
Analysis of the gene regulatory network controlling ES cell identity  
University of Edinburgh

Dr Thao Nguyen  
A replicable and sustainable ICT-enabled business model to benefit women-run micro-enterprises  
Royal Holloway, University of London

Dr Kate Nixon  
Fundamental studies of the ionization of laser-aligned atoms & molecules by low energy electrons.  
University of Manchester

Dr Chukwuma Okoye  
The postcoloniality of African theatre and performance  
University of Leeds

Dr Christopher Olivola  
From fundamental psychological principles to the valuation of human lives  
University College London

Dr Kirill Ospovat  
Socializing culture: court society, patronage and culture in eighteenth-century Russia  
Queen Mary, University of London

Dr Maria Pala  
Origins and expansion of mitochondrial DNA haplogroup HV and the modern human settlement of West Eur  
University of Leeds

Dr Ali Usman Qasmi  
Exploring pluralism in Islamic traditions: the Shia Muslims of Punjab since 1857  
Royal Holloway, University of London

Dr Huanguang Qiu  
The economics of biofuel production: social and environmental impacts in China  
School of Oriental and African Studies

Dr Harapriya Rath  
Porphyrins and expanded porphyrins as linkers between heterometallic rings  
University of Manchester

Dr Guillaume Saint-Guillain  
Identities, colonialisms and state transformations in the thirteenth century Mediterranean  
King's College London

Dr Arjan Schakel  
Regional reform and territorialization of party systems  
University of Edinburgh

Dr Simone Severini  
Quantum networks dynamics  
University College London

Dr Shad Siddiqui  
Mechanistic study of formation of kinetically-trapped nanoemulsions for future health foods  
University of Birmingham

Dr Yonatan Sivan  
Bringing together metamaterials and nonlinear optics  
Imperial College London

Dr Kyriaki Skartsila  
Hydroxylapatite nanoparticles: their reactivity and potential toxicity  
Natural History Museum

Dr Yury Suleymanov  
Quantum mechanical effects in chemical reaction rates  
University of Oxford

Dr Masayoshi Tanaka  
Biomimetic fabrication of highly regulated, biocompatible, nanowires using tubulated liposomes  
University of Leeds

Dr Fang Wang  
A new sub-grid scale two-phase turbulent combustion model using fully-resolved direct numerical simulation  
University of Sussex

Dr Pavlos Xenitidis  
Symmetries and integrability of lattice equations and related partial differential equations  
University of Leeds

Dr Rui Yang  
Electrically small antennas loaded with metamaterials for body-centric wireless communications  
Queen Mary, University of London