

Research Project Grants March 2018

Sciences

Professor Dave Adams

University of Glasgow

Gel-based photoelectrodes for clean fuels

£174,952

Dr James Bendle

University of Birmingham

Unlocking the toolbox of soil bacterial biomarkers

£283,946

Professor Lee Brammer

University of Glasgow

Stellated molecular clusters: porous materials by designed packing inefficiency

£174,952

Dr Heidi Burdett

Heriot-Watt University

Elucidating the light harvesting strategy of the deepest living marine algae

£244,049

Professor Tracey Chapman

University of East Anglia

microRNAs as agents of sexual conflict and cooperation

£198,124

Dr Ewan Clark

University of Kent

Phosphenium cations: phospho-Friedel-Crafts intermediates for modern synthesis

£85,346

Dr Johnathan Dalzell

Queen's University Belfast

Understanding the molecular basis of aggression in nematodes

£195,819

Professor Anuj Dawar

University of Cambridge

Logical fractals

£198,918

Professor Neil Wyn Evans

University of Cambridge

Dark matter astrophysics with the Gaia satellite

£150,285

Dr Joao (Nuno Goncalves) Faria Martins

University of Leeds

Emergent physics from lattice models of higher gauge theory

£110,665

Dr Matthew Fuchter

Imperial College London

Absolute symmetric synthesis using spin polarised electrochemistry

£371,863

Professor Miles R C Hewstone

University of Oxford

Antagonistic secondary transfer effects of intergroup contact

£149,826

Dr Stefan Kepinski

University of Leeds

Towards the formulation of a general theory of root gravitropism

£320,387

Professor Peter Knowles

Cardiff University

Reaction orbitals: a new paradigm for chemical reaction mechanisms

£100,858

Dr Jessica Kwok

University of Leeds

Biopolymer physics defines perineuronal net morphology and synapse formation

£298,273

Professor Martin Lee

University of Glasgow

Were hypervelocity impact structures cradles of life?

£187,509

Professor Tim Lenton

University of Exeter

Quantifying the changing resilience of the climate system and ecosystems

£276,340

Professor Philip Lightfoot

University of St Andrews

A new family of layered perovskite materials with diverse functionality

£118,374

Dr Derek MacMillan

University College London

A combined activation/tethering strategy to lariat peptides

£185,286

Professor Anna Marmodoro

Durham University

Part-whole relations within the fundamental potentialities in nature

£297,361

Dr Armando Martino
University of Southampton
The Lipschitz metric and the conjugacy problem for automorphisms of free groups
£190,455

Professor Stephen Matthews
Imperial College London
Inspiration for a new phosphatidic acid imaging probe from Apicomplexans
£199,438

Professor Adam Nelson
University of Leeds
Phenotype-directed emergence of unnatural products
£319,815

Dr Darren Obbard
University of Edinburgh
A laboratory model for antiviral immunity in molluscs
£201,732

Dr Robert Phipps
University of Cambridge
Catalytic enantioselective radical chemistry
£114,468

Dr Stylianos Rigopoulos
Imperial College London
Towards a theory for population balance in turbulent flow
£154,166

Dr James Rosindell
Imperial College London
Predicting global biodiversity with mechanistic simulation models
£261,180

Dr Karuna Sampath
University of Warwick
Understanding the basis of sex bias
£282,992

Dr Carola-Bibiane Schönlieb
University of Cambridge
Unveiling the invisible: mathematics for conservation in arts and humanities
£297,184

Professor Mark Sephton
Imperial College London
What lies beneath? Using plume chemistry to reveal nature of solar system bodies
£198,457

Professor Neal Skipper
University College London
Uncovering hidden phases of metal-amine solutions: glasses to superconductors
£191,579

Professor Peter Swain
University of Edinburgh
Quantifying and modelling cellular decision making at the single-cell level
£200,264

Professor Sergei Turitsyn
Aston University
Riemann-Hilbert problem and geometrical approach in optical communications
£419,311

Professor Philip Woodman
University of Manchester
Environmental control of membrane expansion: from yeast to nervous systems
£207,635

Professor Martin Richard Yeomans
University of Sussex
Why some foods smell sweet: the neural basis of odour-taste associations
£371,770

Professor Magdalena Zernicka-Goetz
University of Cambridge
The timing mechanism of the early mammalian embryo
£182,177

Humanities

Dr Patti Adank
University College London
Mechanisms governing imitation of speech
£177,789

Dr Theodora Alexopoulou
University of Cambridge
Linguistic typology and learnability in second language
£134,664

Dr Aidan Feeney
Queen's University Belfast
The nature and function of relief
£221,978

Professor Julia Hillner
University of Sheffield
Women, conflict and peace: gendered networks in early medieval narratives
£166,025

Professor Colin Kidd
University of St Andrews
After the Enlightenment: Scottish intellectual life, 1790–1843
£470,556

Dr Michael Niblett
University of Warwick
World literature and commodity frontiers: the ecology of the 'long' twentieth century
£278,994

Professor Stephen Parker
University of Manchester
Double agent: Heinrich Simon's constitutional mission in neo-absolutist Prussia
£354,525

Professor Ad Putter
University of Bristol
The literary heritage of Anglo-Dutch relations, c. 1050–1550
£363,449

Professor David Saad
Aston University
The futility of being selfish
£190,876

Dr Alexandra Sapoznik
King's College London
Bees in the medieval world: economic, environmental and cultural perspectives
£387,679

Dr James Smith
Durham University
The Political Warfare Executive, covert propaganda, and British culture
£328,378

Professor Robbie Sutton
University of Kent
Moral memory bias about the sentience of animals
£192,118

Social Sciences

Dr Paolo Campana
University of Cambridge
Organised crime and illegal governance in local communities in Britain
£119,604

Dr Glenys Caswell
University of Nottingham
Exploring the social management of lone deaths
£108,609

Dr Andrew Robert Holmes
Queen's University Belfast
Fundamentalism as an Ulster phenomenon? Popular Protestantism, 1859–1939
£95,082

Dr Lauge Poulsen
University College London
Left behind: protecting British capital abroad, 1945–1989
£154,725

Professor John Turner
Queen's University Belfast
The rise of corporate titans: CEOs in the UK, 1900–2016
£93,797

Professor Vron Ware
Kingston University
The military in our midst: war preparation and community on Salisbury Plain
£186,260