

## Research Grants and Contracts Awarded 2014-15

### Biological Sciences

Award Holder	Funding Body	Amount	Project Title	Duration
Dr A Dumbrell	Natural Environment Research Council	£727,377	Impacts of Global Warming in Sentinel Systems: from Genes to Ecosystems	4 years
Professor I Colbeck	Natural Environment Research Council	£593,154	Rapid Monitoring of Bioaerosols in Urban, Agricultural and Industrial Environments	3 years
Professor C Raines	University of Illinois	£295,032	RIPE: Realizing increased Photosynthesis Efficiency for Sustainable Increase in Crop Yield - Third tranche funding	12 months
Dr R Strange	Biotechnology and Biological Sciences Research Council	£261,176	Dynamics of Electron and Proton Transfer Chemistry and Hybrid Copper-Haem Enzymes	3 years
Dr U Bechtold, Dr I Chernukhin	Leverhulme Trust	£229,949	Sugar Signalling during Drought Stress: do Plants Suffer Diabetes when Stressed	3 years
Dr M Hough	Biotechnology and Biological Sciences Research Council	£153,082	Dynamics of Electron and Proton Transfer Chemistry and Hybrid Copper-Haem Enzymes	3 years
Professor C Reynolds	Biotechnology and Biological Sciences Research Council	£273,579	Addressing the Architecture, Dynamics and Activation of CGRP Receptor	3 years
Dr M Hough	Leverhulme Trust	£173,794	Enzyme Catalysis in Action: 3D Movies of X-ray Induced Chemical Reactions in Protein Crystals	3 years
Dr L Schalkwyk	MRC via University of Essex	£88,382	Methylomic Profiling in Schizophrenia: Towards an Integrated Genetic-Epigenetic Approach	20 months
Professor E Klenova	Colchester Hospital University NHS Foundation Trust	£67,618	Identification and Validation of New Biomarkers and Drug Targets for Prostate Cancer: the Continuing Investigation	2 years
Dr G Brooke	Jannssen Biotech Inc via Imperial College	£56,288	Engineered Androgen Receptor Repressors for Prostate Cancer Therapy	13 months
Dr G Sandercock	Active Essex	£8,000	Design and Delivery of an Evaluation Tool to Assess the Impact of Primary School PE Premium	2 years
Dr J Barton	Brighton & Hove Food Partnership	£7,998	Care Farming: Packaging the offer for Health and Social Care Commissioners	34 months
Dr M Steinke	Euro Marine Network	£7,500	Chemical Ecology of Marine Interactions: The Chemical Language that Shapes Future Marine Health	1 month
Dr A Dumbrell	Imperial College, London	£6,500	Integrating Next Generation Sequencing Technologies into Food Web Ecology	2 years

Dr Carly Wood	The Wilderness Foundation	£5,018	The TurnAround 6 project	1 year
Dr T Cameron	British Ecological Society	£4,741	Ecosystem wide responses to changes in Trophic Structure	1 year
Dr R Bragg	Natural England	£6,300	A Review of Nature Based Interventions in Mental Health Care	1 year
Dr R Bragg	Care Farming UK	£5,480	Packaging the Offer for Health and Social Care Commissioners	7 months
Dr T Lawson	Forest Research	£3,000	Scaling up Dynamic Responses of Stomata to Assess Impacts on Tree Canopy Carbon Gains and Water Use Efficiency	42 months
Dr P Reeves	Wellcome Trust	£2,000	Construction and Spectral Characterisation of Rhodopsin Autosomal Dominant Retinitis Pigmentosa Mutants	2 months
Dr C Wood, Dr J Barton	The Wilderness Foundation	£2,000	The Effect of a Wilderness Experience on Adolescent's Psychological Well-Being and Connectedness to Nature - phase 2	2 years
Dr R Zwacka	Wellcome Trust	£2,000	The Role of RIP1 in Anti-Cancer Cytotoxic Drug-Induced JNK Activation and Apoptosis	3 months
Professor N Fernandez	Wellcome Trust	£2,000	Is Fetomaternal Tolerance linked to HLA Expression on Trophoblasts	2 months
Dr G Brooke	Wellcome Trust	£2,000	Characterisation of Non-Genomic Androgen Signalling in Prostate Cancer	2 months
Dr C Wood, Dr R Bragg	Wilderness Foundation	£1,995	The Effect of a Wilderness Experience on Adolescent's Psychological Well-Being and Connectedness to Nature - phase 3	4 months
Dr M Jones	Cactus and Succulent Society of America	£969	Measuring Daily Variation in Photosynthetic Efficiency in Kalanchoe Species	6 months
Total		£2,986,932		

#### Centre for Psychoanalytic Studies

Award Holder	Funding Body	Amount	Project Title	Duration
Professor R Papadopoulos	European Commission	£10,244	Prometheus 11 - Strengthening the Rehabilitation of Torture Victims in Greece	18 months
Total		£10,244		

#### Computer Science and Electronic Engineering

Award Holder	Funding Body	Amount	Project Title	Duration
Professor I Henning, Professor M Adams, Professor N Balkan, Dr H Susanto (DMS)	Engineering and Physical Sciences Research Council	£662,015	Spatially Encoded Telecoms and Quantum Technologies Using Spin-Enabled All-Optical Switching	3 years

Dr G Zheng, Professor D Mirshekar	Engineering and Physical Sciences Research Council	£607,818	Unlocking Potentials of MIMO Full-duplex Radios for Heterogeneous Networks (UPFRONT)	3 years
Professor S Walker	European Commission	£453,441	Converted Heterogeneous Advanced 5G Cloud-RAN Architecture for Intelligent and Secure Media Access (CHARISMA)	30 months
Professor S Walker, Professor K Yang	European Commission	£362,325	Intelligent Converged network consolidating Radio and Optical Access around User Equipment (i CIRRUS)	3 years
Dr M Reed, Professor K Yang, Dr N Thomos	European Commission	£337,349	POINT: IP Over ICN - the Better IP?	3 years
Professor S Lucas	Visteon Engineering Services Ltd	£252,000	Essex Smart Mobility App	1 year
Dr F Sepulveda	EPSRC via Newcastle	£219,170	Enabling Technologies for Sensory Feedback in Next-Generation Assistive Devices	3 years
Professor H Hagraas, Dr M Gardner	Innovate UK / BT Group PLC	£215,992	KTP: To develop remote workforce management solutions and embed knowledge of advanced computational intelligence, intelligent environments and augmented reality	3 years
Professor H Hu, Professor D Gu	European Commission	£213,648	To Develop the Capability to Design and Produce Intelligent Wearable Electronic Products which can be used for Health	3 years
Professor M Fasli, L McGregor	Economic and Social Research Council	£211,184	Utilising Big Data in the Practice of Torture Survivor's Rehabilitation	18 months
Professor H Hagraas, Dr M Gardner	Innovate UK / Selex ES Ltd	£206,992	KTP: To develop computational intelligence based machine vision tools	3 years
Dr J Woods, Dr M Reed	Innovate UK/ Emergency Lighting Products Ltd	£132,063	KTP: To develop innovative monitoring equipment for emergency lighting systems.	2 years
Professor D Gu, Professor K McDonald-Maier	TSB/EPSRC	£130,468	KTP: To develop a next generation control system for permanent magnet AC motors and embed the capability to extend the range and tailor solutions in the future	2 years
Professor B Ridley	Office of Navel Research	£108,548	Theory of Transport in Semiconductor Devices	3 years
Professor M Fasli	Technology Strategy Board	£86,910	DADO: Data Analytics Driven by Ontologies	2 years
Professor H Hagraas	British Telecom	£58,194	Advanced Resource Planning System for Organisational Design	3 years
Professor H Hagraas	Selex ES Ltd	£21,395	Development of a Hardware Demonstration Platform to Monitor and Detect Human Behaviours in a Residential Environment	5 months

Professor K McDonald-Maier	Interreg	£17,543	Empowerment of Disabled People through Ethics in Care and Technology (EDECT) - phase 2	9 months
Professor J Gan	British Council	£16,430	BCI as an Intelligent Sensor: BCI Integrated Collaborative Control of a Cognitively Enhanced Smart Wheelchair	1 year
Dr L Citi	Charities Aid Foundation	£12,235	Coach Train - Interurban Transport	7 months
Dr S Sangwine	London Mathematical Society	£1,200	Research Visit to the International Christian University Tokyo	2 weeks
<b>Total</b>		<b>£4,326,920</b>		

### Economics

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Dr J Halket	Institute for Fiscal Studies	£45,305	Urban Dynamics in a Complex World	18 months
Dr S Weidenholzer	British Academy	£9,912	Imperfect Monitoring and Indiscriminate Punishment	2 years
Dr Reinstein	British Academy	£9,688	Experiment on Political Ideology, Empathy and Charitable Giving	2 years
Dr H Breinlich	British Academy	£5,849	The Effect of Trade Liberalization on Firm-Level Profits	18 months
Dr J Ganguli, Dr S Niemann	Bank of England	£5,000	Ambiguity and its Implications in Finance and Macroeconomics	7 months
<b>Total</b>		<b>£75,754</b>		

### Essex Business School

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Dr M Nocker	British Council	£22,900	Introducing Entrepreneurship education in Pakistan: an Interdisciplinary Perspective on Value Creation	3 years
Dr Diane Holt	British Council via University of Cape Town	£20,035	Development through Enterprise-Inclusive and Sustainable Futures through Enterprise-Based and Cross-Sector Partnerships	5 months
Professor S Boehm	The Nexus Network	£19,498	Agroecological Business: Connecting Civil Society, SMEs and the Consumers to Nature and the Land	8 months
Dr J Li	Jianghun University	£20,334	Multi-Level Regional Collaboration and Governance: Theories and Practices	13 months
Dr R Calabrese	British Academy	£9,132	Modelling Spatial Dependence in Credit Contagion for Small and Medium Enterprises	16 months
Dr P Adhikari	British Academy	£9,012	Accounting and the Immigration Discourse: A Gurkha Story	2 years

Professor M Sliwa	ESRC via Middlesex University	£1,476	Exploring Gendered Inclusion in Contemporary Organisations	30 months
		<b>Total</b>	<b>£102,387</b>	

#### Government

Award Holder	Funding Body	Amount	Project Title	Duration
Dr S Costalli	Royal Society - Newton International Fellowship	£95,500	Political Change through Contentious Action. An Actor-Based Approach	2 years
Professor D Howarth	ESRC via De Montfort University	£26,126	Collaborative Governance in Cities under Austerity: An Eight-case Comparative Study	18 months
Professor I Gizelis	British Academy	£9,986	Understanding the Effects of Liberian Ebola-related Quarantines on Government Trust	15 months
		<b>Total</b>	<b>£131,612</b>	

#### Health and Human Sciences

Award Holder	Funding Body	Amount	Project Title	Duration
Professor G Green	Home Office	£99,999	Evaluation of the pan-Essex Testing on Arrest Scheme	2 years
Dr S McPherson, Dr E Speed, Professor D Pevalin, Dr C Green	North East Essex Clinical Commissioning Group	£5,412	Evaluation of Consultation, the Big Care Decision: Care Closer to Home/Urgent Care	2 months
		<b>Total</b>	<b>£105,411</b>	

#### History

Award Holder	Funding Body	Amount	Project Title	Duration
Dr P Gurney, Dr M Grant	Leverhulme Trust	£222,779	National Services Life Stories: masculinity, class and the memory of conscription in Britain	3 years
Professor E Higgs	ESRC via Cambridge University	£184,148	An Atlas of Victorian Fertility Decline	3 years
Dr N Rossol	British Academy	£7,074	Writing about a Revolution, Emotions, Agency and Expectations of German Revolution in 1918	2 years
		<b>Total</b>	<b>£414,001</b>	

#### Institute for Social and Economic Research

Award Holder	Funding Body	Amount	Project Title	Duration
Professor M Benzeval, Professor M Kumari, Professor P Clarke, Professor S Pudney	Economic and Social Research Council	£1,414,750	How can Biomarkers and Genetics Improve our Understanding of Society and Health?	3 years
Professor H Sutherland	European Commission	£1,184,973	EUROMOD Update (Yr 6)	1 year

Professor A Delavande, Professor E Del Bono	Economic and Social Research Council	£720,169	Inequality in Higher Education Outcomes in the UK: Subjective Expectations, Preferences, and Access to Information	5 years
Professor M Brewer, Professor H Sutherland	NORFACE via Uppsala University	£398,753	Inequalities, Insurance, Incentives and Immigration: Challenges and Solutions for the Welfare State	3 years
Dr A Jackle, Professor M Brewer, Professor T Crossley (Economics)	Economic and Social Research Council	£196,015	Understanding Household Finances through better Measurement	18 months
Mr H Jara Tamayo, Professor H Sutherland, Mr A Tumino, Dr M Bryan	European Commission via Centre for European Policy Studies (CEPS)	£145,216	Feasibility and added value of a European Unemployment Benefit Scheme	18 months
Professor S Bhalotra	Economic and Social Research Council	£77,526	Inequalities in Access to Health and the role of the Unified Health System in Brazil	1 year
Professor A Delavande	Nuffield Foundation	£62,425	Expectations, Information and Intention to Participate in Higher Education	33 months
Dr M Kumari	Economic and Social Research Council	£58,130	International Centre for Life Studies and Health: Centre Mid-term review proposal	33 months
Professor H Sutherland	European Commission - Joint Research Centre	£47,394	Tax Shifting of Direct and Indirect Taxation in Italy and Spain	1 year
Professor A Delavande	National Institute of Health via RAND Corporation	£45,818	Health and Economic Status in Older Populations: Evaluation and Experience Well-Being Measures	15 months
Professor M Kumari	European Research Council	£19,191	Health Effects of Social Change in Gender, Work & Family: Life Course Evidence from Great Britain	19 months
Dr A Paulus	European Commission - Joint Research Centre	£10,405	Study on the Assessment of Tax Evasion and Tax Non- Compliance with the EUROMOD Model in Four Countries	1 year
Professor P Lynn	TNS UK Ltd	£8,000	Complex Surveys on Mobile Systems	3 years
Professor S Pudney	Joseph Rowntree Foundation	£3,500	Disability and Poverty in later life: background papers for JRF's anti- poverty strategy	2 months
Dr X Holguer Jara Tamayo	UNU-Wider	£2,839	The Economics and Politics of Taxation and Social Protection	4 months
Dr M Bryan	ESRC via UEA	£2,533	Work, Learning and Wellbeing	6 months
Professor P Clarke	MRC via University of Southampton	£2,466	Dialectical Behaviour Therapy for Treatment - Resistant Depression: A Randomised Controlled Trial	3 years
Total		£4,400,103		

**Language and Linguistics**

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Professor M Schmid	Economic and Social Research Council	£30,270	First Language Attrition Seminar Series	3 years
		<b>Total</b>	<b>£30,270</b>	

**Law**

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Professor M Sunkin, Professor L McGregor, Professor S Bhalotra (ISER), Professor P Fussey (Sociology) , Professor K McDonald-Maier (CSEE), Dr C Fox (CSEE), Professor M Poesio (CSEE); Professor S Leader, Dr A Shaheed; Professor P Hunt	Economic and Social Research Council	£4,743,734	Human Rights and Information Technology in the Era of Big Data	5 years
Dr C Sandoval-Villalba	ESRC via University of Bristol	£287,921	Implementation and Compliance with Human Rights Law: An exploration of the Interplay between the International, Regional and National Levels	3 years
Professor P Hunt	Open Society Foundation	£126,000	Enhancing Civil Society Engagement and the Research Capacity of an UN Special Rapporteur n the Right to Health	2 years
Dr S Sheeran	Canada Department of Foreign Affairs via CUNY	£104,533	START Global Peace and Security Fund Program	6 months
Professor L McGregor, Basak Cali	British Academy - Newton Advanced Fellowship	£65,095	Effects of International Human Rights Law on Public International Law and its sub-branch	2 years
Professor N Lubell	Open Society Institute	£62,905	Promoting Postgraduate Teaching and Research on Human Rights and Drug Policy	1 year
Dr C Sandoval-Villalba	British Council	£20,000	Dealing with Land Destitution and Structural Inequalities in Transitions	6 weeks
Professor L Fox O'Mahony	The Council of Mortgage Lenders (via Birmingham University)	£3,110	Customer Demand for Retirement Borrowing	1 month
		<b>Total</b>	<b>£5,413,298</b>	

**Literature, Film, and Theatre Studies**

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Dr S Oliver	British Academy	£8,459	Green Scott: Walter Scott's Environmentalism and Writing the Ecologies of a Nation	19 months
		<b>Total</b>	<b>£8,459</b>	

**Mathematical Sciences**

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Dr A Salhi	TSB	£16,050	The Smart Town Centre Project	4 months
Dr H Susanto	British Council	£3,000	Second City HE Partnerships Travel Grant	9 months
Total		£19,050		

**Philosophy and Art History**

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Professor B Han-Pile, Dr D Watts	Arts and Humanities Research Council	£529,615	The Ethics of Powerlessness: The Theological Virtues Today	3 years
Professor W Martin, Professor S Michalowski (Law)	Arts and Humanities Research Council	£51,517	UK Preparation for the UN CRPD Engagement Process: A Three-Jurisdiction Approach	1 year
Dr C Pearson	Paul Mellon Centre	£9,800	The Renaissance of the Renaissance? Architecture and Urbanism Between Italy and England	3 months
Total		£590,932		

**Psychology**

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Professor A Wilkins, Dr M Colley	Innovate UK/ Cerium Visual Technologies Ltd	£98,521	To Develop and Launch the next generation of Colorimetry Technology and Embed the Capability to Support and Enhance it in the Future	18 months
Dr S Rigato, Dr K Holmboe	Bill and Melinda Gates Foundation	£61,215	Longitudinal Trajectories in Brain Function in Infancy	18 months
Total		£159,736		



**Sociology**

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Dr N Demireva, Professor Y Soysal	European Commission	£515,913	Growth, Equal Opportunities, Migration and Markets (GEMM)	3 years
Professor Y Soysal	Economic and Social Research Council	£358,481	"Bright Futures": A Comparative Study of Internal and International Mobility of Chinese Higher Education Students (Euro-China UPC)	3 years
Professor E Carrabine	Leverhulme Trust	£159,686	The Iconography of Punishment: From Renaissance to Modernity	3 years
Dr I Crowhurst	COST Action	£93,800	Understanding Scales and Cultures of Governance	1 year
Professor M Roper	AHRC via University of Hertfordshire	£24,662	Central and Eastern England Regional Centre for Exploring the First World War (supplement)	3 years
Dr J Turton	The Police & Crime Commissioner for Essex	£33,000	Improving Police Responses to Domestic Violence	3 years
Dr J Turton	Standing Together Against Domestic Violence	£8,480	Implications for Survivors of Domestic Violence where Cases are Heard in Specialist Domestic Violence Courts and Generic Courts	1 year
<b>Total</b>		<b>£1,194,022</b>		

**UK Data Archive**

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Professor M Woollard	European Commission	£310,965	Synergies for Europe's Research Infrastructure in the Social Sciences (SERISS)	2 years
Dr V Van Den Eynden	JISC	£90,094	JISC UK Data Discovery Service	21 months
H Beedham, H L'Hours, D Hall, Dr V Van Den Eynden	European Commission	£63,197	Strengthening and Widening the European Infrastructure for Social Science Data Archives (SAW)	2 years
<b>Total</b>		<b>£464,256</b>		

**University of Essex****Total** **£20,433,385**