

**DISCOVERY PROJECTS AUSTRALIAN POSTDOCTORAL FELLOWS FOR FUNDING  
COMMENCING IN 2006**

<b>Fellow Name</b>	<b>Administering Organisation</b>	<b>Project ID</b>	<b>Approved Project Title</b>
Dr TJ Alexander	The Australian National University	DP0666546	Matter-wave vortices in engineered nanostructures
Dr DH Arnold	The University of Sydney	DP0663351	Motion and Spatial Coding in Vision
Mr F Aubret	The University of Sydney	DP0663046	Does adaptive plasticity play a significant role in the initial colonisation of novel habitats?
Mr M Baumert	The University of Adelaide	DP0663345	Towards early detection of upper airway obstruction in children: investigation of autonomic control
Dr SM Bellm	The Australian National University	DP0663587	Probing Electron Dynamics in the Molecular Frame
Dr S Belmessous	The University of Sydney	DP0664374	Assimilation and Empire
Miss SM Bengtson Nash	The University of Queensland	DP0666891	Assessment of the Risks Posed to an Antarctic Keystone Species, Antarctic krill ( <i>Euphausia superba</i> ), Through Exposure to Persistent Organic Pollutants
Dr TS Bibby	The University of Sydney	DP0665169	Novel Chlorophylls and New Directions in Photosynthesis
Dr AI Bishop	The University of Queensland	DP0666369	Development of a neutral helium beam microscope
Mr Z Bomzon	Swinburne University of Technology	DP0665401	A biophotonics-based approach to the study of cell-mechanics
Mr AL Burrow	RMIT University	DP0665744	Acts of electronic negotiation: Overcoming communication barriers to transdisciplinary innovation in design
Dr SL Bye	La Trobe University	DP0662929	Australian Screen Comedy
Dr KW Carter	The University of Western Australia	DP0663247	Novel Bioinformatics approaches for genetics and data linkage
Dr KL Cheney	The University of Queensland	DP0663144	The function and maintenance of aggressive mimics: the cleaner fish - fangblenny system
Dr P Cook	Southern Cross University	DP0663159	Unraveling Pathways of Nitrogen Cycling in the Sediments of Shallow Coastal Systems using Biomarkers, Stable Isotope Tracer Experiments and Modeling
Dr IM Cornelius	University of Wollongong	DP0663785	Radiation protection for space, aviation, and terrestrial applications: the development of novel radiation detectors and computational techniques
Ms JP Craig	The University of New South Wales	DP0665337	If men did more housework, would women have more babies? Cross-national fertility rates and the gender division of labour
Mr EJ Cripps	The University of New South Wales	DP0666351	Bayesian choice modelling
Dr EJ Curthoys	The Australian National University	DP0666225	Hannah Arendt, Émigré Intellectuals, and the Ethos of World Literature
Dr RJ Danneau	The University of New South Wales	DP0666495	Electronics with spin: Investigating spin-dependent electrical properties of semiconductor nano-devices
Ms LA de Beuzeville	The University of Newcastle	DP0665254	The linguistic use of space in Auslan (Australian Sign Language): semantic roles and grammatical relations in three dimensions

Dr TP Denham	Monash University	DP0666524	Unearthing the roots of agriculture: multi-disciplinary investigations of Pleistocene and Holocene plant exploitation in Eastern Highlands Province, Papua New Guinea
Dr G Dewson	Walter & Eliza Hall Institute of Medical Research	DP0666603	Elucidating the regulation of cell death by random mutagenesis of key apoptotic proteins
Dr NM Dragomir	The University of Melbourne	DP0663365	Quantitative polarisation phase microscopy: A new tool for advances in structural analysis and biophotonics
Dr A Dussutour	Monash University	DP0664665	Individual behaviour and collective order: the traffic dynamics of ants
Mr TS Elsdon	The University of Adelaide	DP0665303	Bottom-up effects of nutrients on estuarine fish related ecosystems
Dr AJ Fleming	The University of Newcastle	DP0666620	Analysis, Optimization, and Control of Scanning Atomic Force Microscope Micro-Cantilever Probes
Mr M Foth	Queensland University of Technology	DP0663854	New Media in the Urban Village: Mapping Communicative Ecologies and Socio-Economic Innovation in Emerging Inner-City Residential Developments
Mr MD Fowler	RMIT University	DP0664279	Teimu (The Garden of Dreams): aural and aesthetic attributes of Japanese gardens as models for spatial environments
Dr Q Gao	The Australian National University	DP0663161	Band gap engineering of novel (In,Ga)SbN epitaxial semiconductors for high-performance long-wavelength optoelectronic devices
Dr AL Genovese	The University of Melbourne	DP0665082	Has Feminism Failed the Family? A History of Equality, Law and Reform
Mr JJ Hanley	The Australian National University	DP0663269	The Role Of Halide Melts In Platinum-Group Element Mobility
Dr MA Heazle	Griffith University	DP0665326	Global Warming, Iraq, and the Washington Consensus: Three Case Studies on the Role of Specialist Advice in Policy Making
Mr BT Hillman	The Australian National University	DP0663390	Social Networks and Political Change in Contemporary Rural China
Dr KJ Horton	Charles Sturt University	DP0666699	Collective Obligations and Partial Compliance
Dr X Huang	RMIT University	DP0663184	Optimal Topological Design of 3D Continuum Structures for Crashworthiness
Dr TA Jacobsen	Monash University	DP0665138	Sexual contracts in Burma and Cambodia: Intersections of Desire, Duty and Debt
Dr OG Jepps	The University of Queensland	DP0664608	Modelling of transdermal transport using computational molecular simulation
Dr M Jormakka	The University of New South Wales	DP0666970	Structural determination of respiratory membrane protein complexes by X-ray crystallography
Dr AI Karakas	Swinburne University of Technology	DP0664105	Nucleosynthesis of low and intermediate mass stars: A study into the origin of the elements
Dr S Khatab	Monash University	DP0666100	The Theological and Ideological Bases of al-Qa'ida's Political Tactics
Dr B Kuhlmeiy	The University of Sydney	DP0665032	ARROW - the route to better Photonic Crystal Fibres
Dr T Kuratate	University of Western Sydney	DP0666981	Building a Talking Head via Dynamic & 3D-Static, and Age- & Ethnically-Variied Databases: Perceptibility and Acceptability
Dr AH Kwan	The University of Sydney	DP0665446	Zinc finger domains as scaffolds for protein engineering
Dr MI Letnic	The University	DP0666574	Do dingoes regulate the structure of arid ecosystems?

	of Sydney		
Dr W Li	The University of Sydney	DP0666446	Effects of prosthesis design on bone remodelling and longevity of dental restorations
Dr Q Li	The Australian National University	DP0663694	Carrier dynamics in III-V semiconductor quantum dots and nanostructures
Mr C Ling	The University of Newcastle	DP0664992	Fast Decoding for Multi-Input Multi-Output Wireless Communications
Dr CR Locke	The University of Western Australia	DP0662831	Developing New Clocks for Australia: Testing the Assumptions of Modern Physics
Dr KJ Lytikäinen	The University of Sydney	DP0666656	Complex Dopant Diffusivity in Photonic Crystal Fibres and Applications
Dr J Ma	The University of Sydney	DP0666261	The development of super-toughened epoxies using a novel nanomaterial
Dr HG MacDougall	The University of Sydney	DP0665402	Functional Assessment of Head-eye Coordination during Driving
Dr N Mai-Duy	The University of Sydney	DP0663123	Meshless, numerical modelling for polymer processing
Dr DJ Marshall	The University of New South Wales	DP0666147	Does mate choice play a role in the fertilization ecology of free-spawners?
Dr MG Mason	The University of Queensland	DP0665056	Regulation of ion homeostasis by two-component signalling elements
Dr TJ McWhorter	Murdoch University	DP0665730	Sugar and water handling by honeyeaters and sunbirds
Ms K Miller	The University of Queensland	DP0663936	A unified theory of the individual - a central problem in analytical philosophy
Mr M Moore	The University of New England	DP0665079	How Do Stone Tools Reflect Cognition Among the First Australians and their Precursors?
Dr SK Morley	The University of Newcastle	DP0663643	Polar Cap Region Boundary Dynamics
Dr KL Murphy	The Australian National University	DP0666337	The Governance of Defiance
Mr SG Nielsen	Macquarie University	DP0665038	Thallium isotopes: a novel geochemical tracer to map recycling in Earth's mantle
Dr LM Nimmo	The University of Western Australia	DP0663124	The role of retrieval cues when remembering over the short term
Dr P Olivero	The University of Melbourne	DP0663724	Diamond Based Quantum Information Processing
Mr SJ Pas	Monash University	DP0667101	Understanding, Control, and Optimisation of Free Volume Mediated Transport in Technologically Important Materials.
Dr EC Potter	The University of Melbourne	DP0665518	Recreating Public Space: Poetics in the Production of Public Space
Dr RJ Price	Monash University	DP0665456	The Impact of Information about Data Quality on Decision Making
Dr MD Rees	The University of Sydney	DP0663967	Mechanisms and consequences of oxidation of glycosaminoglycans, proteins and proteoglycans by myeloperoxidase-derived oxidants
Dr P Reichart	The University of Melbourne	DP0663724	Diamond Based Quantum Information Processing
Mr D Riggs	The University of Adelaide	DP0666189	Understanding Foster Carers' Motivations: Personal, Political & Historical Perspectives on Care Provision in Australia
Dr C Rocha	University of Western Sydney	DP0666770	A study of the Brazilian community in Australia and Australian-Brazilian bilateral exchange

Dr G Rosenbaum	The University of Melbourne	DP0664832	Geodynamic evolution of the Banda Arc
Dr AL Roskies	The University of Sydney	DP0663776	Personal Identity, Consciousness and Agency
Ms S Sadedin	Monash University	DP0665430	Simulation studies of gene flow and genetic diversity in heterogeneous landscapes
Dr J Serbin	Swinburne University of Technology	DP0663152	Fabrication of complete photonic band gap structures by two-photon polymerization and subsequent infiltration with high refractive index materials
Dr MW Shane	The University of Western Australia	DP0663243	Australian rushes: unearthing the function of root clusters and sand-binding roots
Dr R Shao	The University of Queensland	DP0662755	Recombination of mitochondrial genomes: what can we learn from chigger mites?
Dr DJ Spence	Macquarie University	DP0665301	Direct deep-ultraviolet tunable laser sources generating continuous and ultra-short-pulse radiation for photonics applications.
Dr TM Stace	The University of Queensland	DP0664838	Decoherence and Quantum Simulations of Spin-Environment systems
Dr DR Stegman	Monash University	DP0666472	Planetary Pulsations: Exploring Links between Superplumes, Supercontinents, and Superchrons with 3-D Spherical Mantle Convection Models
Dr JM Sumner	The Australian National University	DP0663875	Testing Theories of Historical Divergence using South Eastern Australian Reptiles
Dr KL Swaminatha-Iyer	The University of Western Australia	DP0663953	Fabrication of robust nanoscale optical biosensors using the novel spinning disc reactor technology
Dr Y Tan	The University of Melbourne	DP0664501	Finite-dimensional Sampled-data Control of Nonlinear Spatially Distributed Parameter Systems
Dr RT Taylor	The University of Melbourne	DP0664448	From Race to the Genome: the Tasmanian Aboriginal People in the Scientific Imagination
Mr VD To	University of Wollongong	DP0666163	Approximate authentication systems for digital information
Dr DR Turner	Monash University	DP0665938	Heterobimetallic Coordination Complexes Containing Rare Earth and d-Block Ions
Dr S Velayutham	Macquarie University	DP0662967	Transnational Affect and the Moral Economies of Temporary Skilled Migration of South Indians to Australia
Dr S Wang	La Trobe University	DP0665250	Chinese Middle to Late Pleistocene hominid behaviour: exploring cultural variability through time and space
Mr BT Warhurst	The University of New South Wales	DP0664550	Geometry on Nilpotent Groups
Dr SD Wilde	The University of Queensland	DP0663635	Trust and the Changing Moral Economy of Australian Medicine
Dr J Yan	Swinburne University of Technology	DP0663841	Agent-based coordination and negotiation technologies for decentralised service workflow management
Mr Y Zhao	University of Wollongong	DP0666853	Superconducting MgB2 thin films and structures for electronic devices and telecommunication applications
Dr G Zhou	Swinburne University of Technology	DP0665868	Nonlinear photonic crystal fabrication in a high refractive index lithium niobate crystal
Mr MP Anstey	Charles Sturt University	DP0663901	The Grammar of Biblical Hebrew: Functional and Corpus Analyses
Dr MS Byron	The University of Sydney	DP0665330	Textual Ontogeny and the Understanding of Modernist Texts: A Case Study of Samuel Beckett's Novel, Watt
Dr EL Christopher	Monash University	DP0664451	Australia's Black Past: the shared history of transatlantic slave trading and convict transportation to Africa and Australia

Dr MA Coleman	The University of Adelaide	DP0663550	Dispersal and gene flow in habitat-forming algae
Dr K da Costa	The University of Sydney	DP0666110	Drawing the line: the archaeology of Roman provincial borders in Late Antique Palaestina and Arabia (AD250 - 650)
Mr AG Fowler	The University of Melbourne	DP0665098	Implementing large-scale solid-state quantum computation
Dr T Handfield	Monash University	DP0663276	Probability and necessity in the physical sciences
Dr DE Kelsey	The University of Adelaide	DP0665094	Tectonic links between the Musgrave Province and the North Australian Craton: correlations, event chronology, and tectonothermal regimes.
Dr SH Lim	The University of Sydney	DP0666883	Design and synthesis of transparent conducting metal oxides
Dr D McDougall	The University of Western Australia	DP0666652	Christianity, conflict, and culture: an anthropological investigation of the political role of churches in Solomon Islands
Dr T Murphy	The University of Sydney	DP0665973	Exploring Scientific Information with Advanced New Search Tools
Dr F Qian	Deakin University	DP0666276	Remembering Places of Pain and Shame: Conservation of the Asia-Pacific Region's 'Difficult' Heritage of Imprisonment Sites
Dr J Rossel	The Australian National University	DP0665363	Elucidating the interactions between drought tolerance and photoprotection in plants
Dr K Ryan	Monash University	DP0665736	Supersonic flow past micro-scale particles: Industrial applications
Dr RA Shellie	University of Tasmania	DP0663781	Enhanced peak capacity in ion chromatography through gradient elution and multidimensional separations
Dr MJ Simpson	The University of Melbourne	DP0662804	Multi-scale modelling of cell migration in developmental biology
Dr MR Tingay	The University of Adelaide	DP0665194	Crustal Stress Field of SE Asia
Dr QB Vo	RMIT University	DP0663147	Service-oriented negotiation and coordination in multi-agent systems