

**DISCOVERY PROJECTS AUSTRALIAN POSTDOCTORAL FELLOWS FOR
FUNDING COMMENCING IN 2008**

Fellow Name	Administering Organisation	ProjectId	Approved Project Title
Miss TD Ainsworth	James Cook University	DP0877226	Coral Reefs Sensing Our Changing Climate
Dr SS Ajiev	The University of New South Wales	DP0881037	Functional and harmonic analysis of function spaces: synthesis, development and applications
Dr LJ Arnold	University of Wollongong	DP0878604	Pleistocene evolutionary dynamics and past environments of Siberia: Reconstructions using luminescence dating of ancient DNA sedimentary archives
Ms D Baratieri	The University of Western Australia	DP0877841	The cult of the Duce in the wider world
Dr PL Bartlett	Murdoch University	DP0881114	Complete calculation of positron- and electron-impact scattering of atoms
Mrs LJ Beaumont	Macquarie University	DP0877979	Where will species go? Revolutionising projections of species distributions with climate change
Dr SV Bhosale	Monash University	DP0878756	Construction and Use of Yoctowells as Vessels for Catalysis, Sensing and Artificial Photosynthesis
Mr P Blockley	Macquarie University	DP0879380	Future generation high-performance radio communications circuits in gallium nitride technology
Mr JA Broberg	The University of Melbourne	DP0881742	Coordinated and Cooperative Load Sharing between Content Delivery Networks
Mr AR Brumm	University of Wollongong	DP0879624	A reassessment of early human stone technology from a Southeast Asian perspective
Mr J Byrnes	La Trobe University	DP0879071	Solving the water crisis in Australian cities and towns with options contracts between urban and rural water users
Dr MJ Carter	The University of Sydney	DP0880374	With or without pots: Investigating the archaeology of human settlement on Santa Isabel, western Solomon Islands
Dr L Chang	The University of Sydney	DP0877750	Towards new generations of lubricants using nanoparticles
Mr S Chelkowski	The Australian National University	DP0879647	Advances in Quantum Imaging and Quantum Memory using Squeezed Light and Entanglement
Dr B Chi	The University of New South Wales	DP0881174	Novel nanostructured InVO ₄ and related vanadates photocatalysts for water splitting under visible light irradiation
Dr JE Cinner	James Cook University	DP0877905	How can communities sustainably manage coral reefs?
Dr SB Cole	The University of Melbourne	DP0880760	The revival of Tudor church music 1880-1930: choral traditions, Roman Catholicism and English national identity
Dr KE Cook	Deakin University	DP0877091	The health implications of uncertain child support payments for children in low-income single parent families
Ms KJ Crawford	The University of Sydney	DP0877530	Young, Mobile, Networked: Mobile Media and Youth Culture in Australia
Dr SE Davies	Queensland University of Technology	DP0878792	Containing H5N1: the role of the World Health Organisation (WHO) and East Asian states
Dr J Deger	Macquarie University	DP0877085	Digital Technologies, Mediated Futures: Envisioning Culture in Arnhem Land

Mr M Dowling	The Walter and Eliza Hall Institute of Medical Research	DP0881615	Quantifying the adaptive immune response
Dr M Edvardsson	The Australian National University	DP0881070	Sex and mutations - testing the genic capture hypothesis
Dr J Elaridi	Monash University	DP0877914	New polymerisation processes for the synthesis of novel biopolymers
Mr DH Evans	The University of Sydney	DP0880490	Hydraulic Systems and State Development in Early Cambodia: Mapping the Engineered Landscapes of the Khmer Using Remote Sensing
Dr J Faulkner	The University of New South Wales	DP0877618	The Concept of Innocence and the Political Community: Australian identity and social health
Ms M Fenech	Charles Sturt University	DP0881729	A multi-modal investigation of current and proposed structures and processes determining and sustaining quality in Australian centre-based child care
Dr G Flematti	The University of Western Australia	DP0880484	Synthesis and evaluation of labelled germination stimulants for determining the role of butenolide in promoting seed germination.
Dr MM Gaber	Monash University	DP0880874	Adaptive data stream processing in heterogeneous distributed computing environments using real-time context
Dr DM Grace	The Australian National University	DP0878905	When immigrants and converts are not truly one of us: Examining the social psychology and developmental antecedents of marginalizing racism
Dr K Hauck	Monash University	DP0881757	Modelling the Quality of Hospital Care in Australia
Dr CM Hayles	The Flinders University of South Australia	DP0879152	How Individual and Societal Resources Contribute to Ageing Well through the Fourth Age: The Australian Longitudinal Study of Ageing
Ms Q He	The University of Queensland	DP0880404	Dynamics and correlations of many-body systems
Mrs ST Henriques	The University of Queensland	DP0880105	Elucidating the chemical and biophysical basis for the bioactivity of cyclotides: ultra-stable proteins from plants
Mr S Hild	The Australian National University	DP0881222	Increasing the science output of future gravitational-wave detectors by implementation of advanced output-optics configurations
Dr SY Ho	The Australian National University	DP0878014	Analysing and modelling molecular rate variation among nuclear and mitochondrial genomes
Dr EA Hoban	Monash University	DP0878866	Immigration and parenting among Cambodian and Iraqi women in Australia
Dr SP Holford	The University of Adelaide	DP0879612	Compressional Deformation and Uplift of Australia's Passive Southern Margin
Dr AW Hurley	The University of Melbourne	DP0880004	Love narratives in contemporary German literature since 1990
Mr DW Inglis	Macquarie University	DP0880205	Microfluidic device for microbial separation and concentration
Miss C Ioannou	The University of Sydney	DP0880919	Reducing irresponsible gambling: Changing a justification to an avoidance strategy.
Dr MJ Ireland	The University of Sydney	DP0878674	Multiplicity in Star and Planet Formation with the PAVO instrument

Dr EI Izgorodina	Monash University	DP0880072	Computational approaches to selection and design of ionic materials
Dr M Jago	Macquarie University	DP0880437	Rationality and Resource Bounds in Logics for Intentional Attitudes
Mr B Johannessen	The Australian National University	DP0878077	Synchrotron radiation techniques applied to melting and resolidification at a nanometric scale
Dr AP Johnston	The University of Melbourne	DP0877360	Engineering and Assembly of Bioinspired Nanostructured Materials
Dr J Jones	The University of Melbourne	DP0879445	Rural women, cross-racial collaboration and life writing in the Country Women's Association of New South Wales, 1956-1996.
Mr MM Kasumovic	The University of New South Wales	DP0877983	The importance of phenotypic plasticity in maintaining and introducing variation
Dr R Kenny	La Trobe University	DP0879571	Psychoanalysis, Anthropology and the Australian Aborigine: the revaluing of myth in the twentieth-century
Dr FJ Kidd	The University of Sydney	DP0877805	A study of a newly discovered corpus of early Central Asian wall paintings
Dr J Kim	University of Wollongong	DP0879070	Giant Magnetocaloric Materials and Room Temperature Refrigeration
Dr J Kim	The University of Sydney	DP0881063	Innovative visualization of next-generation biomedical images
Dr MJ Kitchen	Monash University	DP0878483	Determination of lung morphology from X-ray phase contrast radiographs
Dr TJ Klein	Queensland University of Technology	DP0878365	Engineering Articular Cartilage with Zonal Structure and Function
Dr MJ Latter	The University of Western Australia	DP0880568	Integrated approach to self assembled molecular capsules
Dr JG le Floch	The University of Western Australia	DP0878108	Extending the spectrum and performance of ultra-stable frequency generation
Ms M Lee	The University of Western Australia	DP0881520	Guarding and evolving the genome: interactions between DNA-repair enzymes and damaged DNA
Dr EJ Livesey	The University of Sydney	DP0880865	Attentional Processes in Human Associative Learning
Dr TG Luckins	The University of Melbourne	DP0880067	A History of Cosmopolitanism in Australia, 1850-2000
Dr PC Lyon	The University of Adelaide	DP0880559	Foundations for a Cognitive Biology
Dr C Makochekanwa	The Australian National University	DP0881278	Positronic Atoms - A Search for Positron Bound States
Mr PG Matthews	The University of Queensland	DP0879605	The evolution of periodic ventilation in insects
Dr SK May	Griffith University	DP0877463	Picturing change: 21st Century perspectives on recent Australian rock art, especially that from the European contact period.
Dr NG McKinnon	Monash University	DP0880448	Mereological Composition and Material Constitution

Dr RS Menon	The Australian National University	DP0877501	gem-Dihalogenocyclopropanes as building blocks for the chemical synthesis of biologically active natural products and their analogues
Dr AS Mian	The University of Western Australia	DP0881813	Integration of Spatiotemporal Video Data for Realtime Smart Proactive Surveillance
Dr A Modesti	La Trobe University	DP0877285	Mapping Matrons: Women's Cultural Patronage Networks in Seventeenth Century Northern Italy: from Maria Cristina of Savoy to Vittoria della Rovere.
Dr EG Moore	The University of Melbourne	DP0879996	Novel Lanthanide Complexes and Polymeric Luminescent Chelates for Biomedical Imaging and Bioassay
Dr T Morrison	The University of Newcastle	DP0878706	Isaac Newton's Temple of Solomon and his analysis of sacred architecture: An interpretation and discussion of Babson Manuscript 0434
Dr M Murcha	The University of Western Australia	DP0878603	Functional characterisation of novel transport protein in plants
Mr BP Murphy	University of Tasmania	DP0878177	Understanding the impact of global environmental change on Australian forests and woodlands using rainforest boundaries and Callitris growth as bio-indicators
Dr T Nguyen	The University of Sydney	DP0879609	Developing a new technology: advanced surface hardening and grinding in a single operation
Dr K Nordstrom	The University of Adelaide	DP0880983	Target detection in visual clutter
Dr JM Oakes	Southern Cross University	DP0878568	Unravelling Pathways of Nitrogen Cycling in the Muddy Sediments of Shallow Coastal Systems using Biomarkers, Stable Isotope Tracer Experiments and Modelling
Dr M O'Brien	Monash University	DP0880214	Genetic control of floral architecture
Dr T Okamoto	The Walter and Eliza Hall Institute of Medical Research	DP0881449	Control of cell survival by the Bcl-2 protein family
Dr CJ O'Neill	Macquarie University	DP0880801	The role of supercontinents in Earth's dynamic evolution
Dr R Orus	The University of Queensland	DP0878830	Novel approaches to strongly correlated quantum systems in two dimensions
Dr X Peng	The University of Adelaide	DP0880087	Population ageing, labour mobility and sustainability of China's economic growth - a dynamic general equilibrium analysis
Dr GJ Price	The University of Queensland	DP0881279	Constructing a temporally-constrained palaeoecological model of Quaternary faunal evolution and extinction in eastern Australia
Dr JL Provis	The University of Melbourne	DP0879738	Geopolymers for nuclear applications
Mr SJ Puglisi	RMIT University	DP0877883	Indexes Allowing Fast and Efficient Text Search
Dr TQ Qasim	The University of Western Australia	DP0878113	Failure modes in ceramic-based layer structures: Relevance to failure of dental crowns
Dr K Rabaey	The University of Queensland	DP0879245	EXTRACELLULAR ELECTRON TRANSFER IN BIO-ELECTROCHEMICAL SYSTEMS
Mr FT Ramos	The University of Sydney	DP0881564	Learning from Uncertain and Missing Labelling in Relational Data

Dr E Rennie	Swinburne University of Technology	DP0880772	The reinvention of Indigenous media: Innovation, expansion and social development
Dr S Richards	The Australian National University	DP0877274	Tectonic mode switches and the nature of orogenesis
Dr G Ridall	Queensland University of Technology	DP0877624	Novel Applied Bayesian Statistics for Monitoring Neuromuscular Diseases
Dr JV Ross	The University of Melbourne	DP0878681	Stochastic methods for studying models of infection and abundance
Dr Y Ruan	The University of Adelaide	DP0880436	Sub-wavelength light confinement
Dr S Ruffell	The Australian National University	DP0879940	A novel maskless process for patterning and doping of silicon
Ms M Seaton	University of Western Sydney	DP0877868	Realising Gifted Students' Potential: Elucidating psychosocial determinants and the impact of different educational settings on educational outcomes and psychosocial wellbeing
Mr AW Selth	Griffith University	DP0881857	Burma's Role in Shaping the Asia-Pacific Strategic Environment
Dr G Shen	The University of Melbourne	DP0878061	Translucent Optical Networks: Architecture, Design, Operation, and Survivability
Dr CK So	University of Western Sydney	DP0880654	Unveiling the mystery of tone perception: How does native language prosody affect adults' perception of foreign tones?
Dr S Sorial	Macquarie University	DP0879258	Can saying something make it so? Sedition, speech act theory and the status of freedom of speech in Australia
Dr RJ Stancliffe	Monash University	DP0879472	The origins of carbon-enhanced metal-poor stars
Dr EW Streed	Griffith University	DP0877936	A Photonic Interconnect for Trapped Ion Quantum Computing
Dr K Stubbs	The University of Melbourne	DP0877887	To gain insight into the molecular mechanisms involved in antibiotic resistance shown by Gram-negative bacteria.
Mr JG Sumner	University of Tasmania	DP0877447	Markov invariants and phylogenetic tree reconstruction
Dr J Taliadoros	Monash University	DP0880458	Sacred Rules, Secular Revelations: The Conceptions of Rights in Pre-Modern Europe
Dr KJ Thurecht	The University of Queensland	DP0880032	Supercritical CO ₂ : A Clean, Green Reaction Medium for Novel Polymer Synthesis and Modification
Dr CC Ticknor	Swinburne University of Technology	DP0879926	Understanding Collisions of Cold Polar Molecules
Dr B Tschirren	Macquarie University	DP0879313	Mother knows best: an integrative study on the causes and fitness consequences of individual maternal strategies in the Australian zebra finch
Dr MM Tumarkin	Swinburne University of Technology	DP0877630	Social Memory and Historical Justice: How Democratic Societies Remember and Forget the Victimisation of Minorities in the Past
Dr AN Vo	The University of Melbourne	DP0880065	Static and Dynamic Query Pruning Techniques for Complex Text Retrieval Systems
Dr G Weidemann	The University of New South Wales	DP0877407	The interaction between cognitive expectancy and conditioned responding in human eyeblink conditioning.

Ms S Whittle	The University of Melbourne	DP0878136	Brain development during adolescence and the emergence of depression: A longitudinal MRI study.
Dr KA Wilson	The University of Queensland	DP0880023	Maximising the conservation of biodiversity and the delivery of ecosystem services: What to do, where and when
Dr EL Wong	The University of New South Wales	DP0881141	New Strategies for Monitoring DNA-Anticancer Drug Interactions
Dr TM Woodruff	The University of Queensland	DP0877848	Role of the complement system in the healthy and diseased central nervous system
Dr C Yang	The University of New South Wales	DP0880548	Development of high-performance Si/Ge superlattice thermoelectric materials with optimization of lattice periodic thickness
Dr H Yu	The University of Newcastle	DP0878873	Process for treatment of fluorine-containing synthetic greenhouse gases
Dr X Yu	University of Wollongong	DP0878661	Improvement and synthesis of advanced hydrogen storage materials for fuel cell applications
Mr C Yu	The Australian National University	DP0877562	Large Scale Complex Multiagent Systems : Control Methodologies and Information Architectures
Dr C Yuan	The Australian National University	DP0881466	Formation of nanocrystals (or nanocrystals with core/shell structure) and applications for photonics, floating gate and magnetic memory
Ms MS Zappavigna	The University of Sydney	DP0881513	Enacting Reconciliation: Negotiating Meaning in Youth Justice Conferencing
Dr Q Zeng	The University of New South Wales	DP0881531	Molecular modelling of the structure and mechanical properties of clay-based polymer nanocomposites
Dr X Zhang	The University of Melbourne	DP0880152	Interfacial Nanofluids
Dr B Ziino	Deakin University	DP0880615	The culture of war: private life and sentiment in Australia 1914-18