

**DISCOVERY PROJECTS AUSTRALIAN POSTDOCTORAL FELLOWS FOR
FUNDING COMMENCING IN 2009**

Fellow Name	Administering Organisation	Project ID	Approved Project Title
Dr. P. Bubbio	The University of Sydney	DP0984296	The God of Hegel's Post-Kantian Idealism
Mr. J. Yerbury	University of Wollongong	DP0984341	Establishing the role of alpha-2-macroglobulin in quality control of extracellular protein folding
Mr. D. Chen	University of Wollongong	DP0987190	Frustrated magnets: a new platform for multiferroic materials
Dr. K. Wright	The University of Melbourne	DP0987299	Educating the Adolescent: An historical study of curriculum, counselling and citizenship in Australia 1930s -70s
Dr. P. Burke	The Australian National University	DP0987357	Indigenous Diaspora: a new direction in the ethnographic study of the migration of Australian Aboriginal people from remote areas.
Dr. F. Capitanio	Monash University	DP0987374	Coupled subduction dynamics and continent deformations: understanding the Asian and Red Sea tectonics.
Dr. M. Miller	The University of Melbourne	DP0987396	Three-dimensional evolution of the Banda Arc: effects of the collision of the Indo-Australian plate with the active Banda volcanic arc
Mr. X. Geng	Deakin University	DP0987421	Automatic Human Age Estimation Based on Visual Information
Dr. J. Razal	University of Wollongong	DP0987503	Wet-Spinning Novel Multi-Functional Bio-Synthetic Platforms
Dr. K. Zander	Charles Darwin University	DP0987528	Modelling Payments for Environmental Services on Indigenous held lands
Dr. K. Sanders	The University of Adelaide	DP0987620	Sea Snake Diversification: Why Are Certain Taxa And Regions Species-Rich?
Dr. S. Chen	Monash University	DP0987632	Origin of ferromagnetism in zinc-oxide semiconductors: A vital element to spintronics
Dr. M. Sdrolias	The University of Sydney	DP0987713	The Subduction Reference Framework: unravelling the causes of long-term sea-level change
Dr. J. McLellan	James Cook University	DP0987740	Modeling fluid flow and mineralisation at crustal interfaces
Dr. K. Shaw	The University of Melbourne	DP0987867	Planning the 'creative' city: reconciling global strategies with local subcultures
Dr. M. Hendrickson	The University of Sydney	DP0987878	Industries of Angkor: Material Production and the Decline of the Khmer Empire (11th to 15th centuries CE)
Dr. C. Danta	The University of New South Wales	DP0987893	The scientific ape: the evolution of the animal fable after Darwin
Mrs. X. Yin	The University of Adelaide	DP0988064	Investigation of three dimensional terahertz computed tomography for biomedical applications
Dr. V. Bansal	RMIT University	DP0988099	Biosynthesis of multiple-nonmetal codoped titania nanoparticles for visible light photocatalysis

Dr. R. Patulny	The University of New South Wales	DP0988102	Poor Women and Lonely Men: Examining Gendered Social Inclusion and Connection in Australia
Mr. D. Buso	Swinburne University of Technology	DP0988106	Tailoring the optical properties of matter with Sol-Gel: innovative optical materials for 3D photonic crystals with complete photonic band-gap.
Dr. R. Pillar	The Flinders University of South Australia	DP0988129	Diatom frustules: nanostructures at the base of ocean food webs
Dr. J. Guo	The University of New South Wales	DP0988137	Driving Large Scale Live Internet Broadcasting of Streaming Video
Dr. S. Biddulph	The University of Melbourne	DP0988179	The prospects for justice in the legal reform of police administrative detention powers in China
Dr. K. Selway	The University of Adelaide	DP0988263	Resistivity of typical rocks at crustal pressure and temperature conditions from combined laboratory and magnetotelluric measurements
Dr. E. Lamb	The University of Sydney	DP0988452	Reading Children in Early Modern Culture
Dr. B. Treeby	The University of Western Australia	DP0988477	Modelling the acoustical scattering properties of the human auditory system
Dr. R. Bouveret	The University of New South Wales	DP0988507	Gene regulatory networks in heart development
Dr. Z. Xu	The Australian National University	DP0988568	Nonlinear surface modes in photonic and plasmonic metamaterials
Dr. E. Lee	The Walter and Eliza Hall Institute of Medical Research	DP0988616	Mechanisms of cell death regulation by the Bcl-2 protein family
Dr. D. Merino	The Walter and Eliza Hall Institute of Medical Research	DP0988643	Investigating the activator function of the Bim protein
Dr. L. He	The University of Sydney	DP0988671	Biomimetic Insights from Enamel: A Nano-mechanical and Nano-structural Investigation of a Natural Ceramic-like Biocomposite
Dr. A. Merchant	The University of Sydney	DP0988731	Metabolite pools and their implications for plant responses to global change
Dr. E. Djonov	University of Technology, Sydney	DP0988939	Towards a social theory of semiotic technology: Exploring PowerPoint's design and its use in higher education and corporate settings
Mr. B. Vo	The University of Western Australia	DP0989007	Efficient Algorithms for Multiple Object Filtering using Stochastic Geometry
Dr. G. Athanasopoulos	Monash University	DP0984399	Vector ARMA Models and Macroeconomic Modelling: Some New Methodology and Algorithms

Dr. W. Yeoh	The University of Sydney	DP0984402	Microscopic Origin of the Enhanced Flux Pinning in Nano-Doped MgB ₂ Superconductors
Dr. B. Gault	The University of Sydney	DP0984426	Structure-Activity Relationships in Silicon-based Photovoltaics Through Atomic Scale Microscopy
Dr. H. Dickinson	Monash University	DP0984466	Who determines gestation length - mother or fetus?
Dr. A. Rich	Macquarie University	DP0984494	Keeping track: The effect of distraction on attention to moving objects
Dr. M. Chen	University of Technology, Sydney	DP0984495	The New Rich and the State in China: The social basis of local power
Mr. P. Bedggood	The University of Melbourne	DP0984649	Functional imaging of colour pathways in the living eye
Dr. P. Bain	Murdoch University	DP0984678	Collective futures: The effects of beliefs about future states of society on the support for and enactment of social change
Dr. E. Baulch	The University of Melbourne	DP0984681	Middle Classes, New Media and Indie Networks in Post Authoritarian Indonesia
Dr. R. Raihani	The University of Western Australia	DP0984683	Education for a Tolerant and Multicultural Indonesia
Dr. P. Enticott	Swinburne University of Technology	DP0984751	Dissociating facial processing pathways for static and dynamic information
Dr. Y. Wang	The University of Queensland	DP0984755	Understanding of nanostructures and magnetic properties of Ge-based diluted magnetic semiconductors for spintronic devices
Dr. S. Santra	The University of Sydney	DP0984807	Blow-up phenomena in semilinear elliptic partial differential equations
Dr. J. Wilkins	The University of Sydney	DP0984826	Contemporary scientific explanations of religion: A methodological and philosophical analysis
Mr. E. Cavalcanti	Griffith University	DP0984863	Quantum steering, nonlocality and foundations
Dr. S. Banks	The Australian National University	DP0984876	Life history responses to habitat heterogeneity and implications for conservation
Dr. LP do Prado	The University of Sydney	DP0984888	Host-parasite interactions during a biological invasion: toads, frogs and nematodes in tropical Australia
Dr. A. Blencowe	The University of Melbourne	DP0984915	The development of unique cyclic polymers
Dr. J. Bolton	The University of Melbourne	DP0984947	The first two billion years: the structural, chemical and thermal evolution of the intergalactic medium
Dr. M. Maruszewski	The Australian National University	DP0984960	Nonlinear optics of soft matter
Dr. L. Brady	Monash University	DP0984998	The Kaurareg Archaeological Project, south-Western Torres Strait, Australia
Dr. F. Meakins	The University of Queensland	DP0985024	Life after death: Exploring the birth of Gurindji Kriol, a new Aboriginal mixed language.
Mr. Z. Chen	The University of Queensland	DP0985084	Epitaxial growth of Zn-VI/III-N nanowire-based structures for future device applications
Mr. J. Yu	The University of Adelaide	DP0985176	Electron transfer in proteins, a study of mechanism and function

Dr. B. Cox	University of Wollongong	DP0985208	Mathematical and mechanical models in nano-engineering and nanomedicine
Dr. Y. Lu	The University of Sydney	DP0985312	Fundamentals of Damage Identification in Tubular Structures Using Guided Waves
Dr. Y. Mu	The University of Queensland	DP0985317	Biotransformation and biodegradation of organic nitrogen compounds from wastewater in bio-electrochemical systems
Dr. D. Lannuzel	University of Tasmania	DP0985361	Iron in the Antarctic sea ice zone and its role in the past and future climate
Dr. M. Fillios	The University of Sydney	DP0985375	The Taphonomy of Waterhole Faunal Death Assemblages: A model for Archaeological Contexts in the Australian Semi-Arid Zone
Mr. A. Leong	The University of Melbourne	DP0985397	Resource-aware Signal Processing and Control Algorithms for Networked Sensor Systems
Mr. D. Nisbet	Monash University	DP0985433	Using nanostructured biomaterials and stem cells to repair spinal cord injuries
Dr. M. Massi	Monash University	DP0985481	Design and synthesis of novel lanthanoid complexes for the fabrication of light emitting devices
Dr. D. Gardiner	CSIRO - Plant Industry	DP0985486	A systems approach to dissect the pathogenicity and host specificity of the Fusarium wilt pathogen, Fusarium oxysporum
Dr. M. Prebble	The Australian National University	DP0985593	Tracking 3000 years of agricultural adaptation to the resource poor, climate sensitive and remote Solomon Islands using biomarkers and palaeoecology
Dr. E. Krenske	The University of Melbourne	DP0985623	Exploring new roles for phosphorus radicals in health, environment, and technology
Dr. P. Kritzer	The University of New South Wales	DP0985765	High dimensional problems of integration and approximation
Dr. A. Doron	The Australian National University	DP0985784	Mediated Mobility: India's Low Caste Revolution in the Media Age
Dr. A. Leach	The University of Queensland	DP0985834	The Baroque in Architectural Culture, 1880-1980
Dr. F. Han	RMIT University	DP0985838	Developing Reliable Bio-Crypto Features for Mobile Template Protection
Dr. R. Jones	The University of Sydney	DP0985845	Anatomies of Empire: Race, Evolution and Scientific Networks in the Twentieth-Century British World
Dr. J. Spinks	The University of Melbourne	DP0985851	Reading the signs: disaster, apocalypse and demonology in European print culture, 1450-1700
Mr. I. Garanovich	The Australian National University	DP0985855	Tunable shaping and switching of polychromatic light for integrated photonics
Mr. J. Chow	The Australian National University	DP0986003	Digital Interferometry: A platform technology for robust optical measurements
Mrs. N. Kononenko	The University of Sydney	DP0986004	Valuing Stones: obsidian stemmed tools in the creation of social complexity in Papua New Guinea

Ms. M. Higgle	The Australian National University	DP0986013	Diversity out of a hybrid zone: the interplay of reinforcement and sexual selection in the formation of new species
Ms. T. Hamilton	The University of Sydney	DP0986025	A neuromorphic binaural hearing sensor
Dr. M. Yan	The University of Queensland	DP0986042	The fabrication of amorphous metallic components by powder injection moulding.
Mr. P. Tilley	The University of Sydney	DP0986188	The digital restoration of the Dublin Kephalaia codex and its importance for the history of religions
Dr. G. Such	The University of Melbourne	DP0986222	Synthesis and Functionalisation of Advanced Polymer Films and Particles.
Dr. J. Devlin	The University of Melbourne	DP0986228	Structural and functional investigations into a novel chemokine binding protein encoded by evolutionarily diverse alphaherpesviruses
Dr. J. Ekberg	Griffith University	DP0986294	Understanding how the multiple roles of olfactory ensheathing cells guide the growth and regeneration of olfactory axons
Dr. A. Zalesky	The University of Melbourne	DP0986320	Charting connectivity in the healthy and diseased brain
Dr. P. Dux	The University of Queensland	DP0986387	The Ins and Outs of the Central Bottleneck
Dr. W. Teoh	The University of New South Wales	DP0986398	Designing integrated photocatalytic systems for simultaneous clean energy generation and water remediation
Mr. C. McHenry	The University of Newcastle	DP0986471	The role of natural selection in macroevolution: a case study examining convergence of form and function in marine predator guilds
Dr. M. Hagman	James Cook University	DP0986537	Understanding and managing resistance to the amphibian chytrid fungus Batrachochytrium dendrobatidis in Australian tropical rainforest frogs
Dr. L. Ntogramatzidis	The University of Melbourne	DP0986577	Modelling and estimation methods for discrete multi-dimensional systems
Dr. L. Tran	Monash University	DP0986590	International Students in the Australian Vocational Education and Training (VET) Sector: Study Purposes, Learning Practices and Institutional Responses
Dr. A. Narendra	The Australian National University	DP0986606	Moving between day and night: Navigational strategies and foraging costs of temporal niche partitioning
Dr. H. Nurdin	The Australian National University	DP0986615	Linear Dynamical Quantum Networks: Synthesis and Control
Dr. A. Gorman-Murray	University of Wollongong	DP0986666	Men on the home front: spatialities of domesticity and masculinity
Ms. J. Borland	Murdoch University	DP0986763	Sites of Learning, Spaces of State: Reconstructed Primary Schools and Small Parks in Tokyo, 1923-1945
Dr. S. Haine	The University of Queensland	DP0986893	Fundamental tests of Quantum Mechanics with the Atom Laser.
Dr. K. Gleeson	Macquarie University	DP0986934	The Parliamentary Politics of Abortion Reform in Australia: The Diverse Experience of Nine Jurisdictions, 1965-2010

Dr. A. Whiting	The University of Melbourne	DP0986954	Lawyers, Civil Society and the State in Post-colonial Malaysia
Dr. G. Williams	Deakin University	DP0986955	The role of optimism in collaborative problem-solving in mathematics: Building problem solving capacity
Ms. L Hjorth	RMIT University	DP0986998	Online@asia/pacific: A comparative study of online networks in the Asia-Pacific
Dr. B. Jia	Swinburne University of Technology	DP0987006	Functional micro-multiplexers based on nonlinear three-dimensional photonic crystal superprisms
Dr. N. Prow	The University of Queensland	DP0987010	Detection of imported exotic strains of West Nile virus for national biosecurity surveillance.
Ms. R. Purnamasari	The University of Melbourne	DP0987011	Community-Led Sanitation Interventions :The Role of Social Capital
Mr. A. Malde	The University of Queensland	DP0987043	Development of methodology for high throughput free energy calculations in drug design applications.
Ms. H. Hung	The Australian National University	DP0987081	A study of ancient jade trading networks in prehistoric southern China and Southeast Asia, 3000 BC to AD 500
Dr. E. Arabzadeh	The University of New South Wales	DP0987133	Sensory Coding Mechanisms in Rat Somatosensory System; A Combined Behavioural and Electrophysiological Approach
Dr. C. Ye	The University of New South Wales	DP0987142	Controlled synthesis of well-aligned single crystalline one-dimensional semiconducting nanomaterials for energy application