

2018-2019 JSPS Postdoctoral Fellowships

Researcher	Title of research project	Host researcher
Dr Getnet Adem University of Tasmania	Functional characterisation of candidate genes for PUE and mining their allelic variants in rice	Dr Matthias Wissuwa Japan International Research Center for Agricultural Sciences (JIRCAS)
Dr Alexander Brown University of Technology Sydney	Precarity and protest in transnational Japan: texts and cultural practices	Professor Nozomu Shibuya Japan Women's University
Dr Matthew Chan The University of Sydney	Sexual conflict and speciation from a dynamical systems approach	Associate Professor Simone Pigolotti Okinawa Institute of Science and Technology Graduate University
Dr Dror Cohen Monash University	Developing objective metrics of extrinsic and intrinsic processing for the analysis of neuroimaging data	Dr Shinji Nishimoto National Institute of Information and Communications Technology (NICT)
Dr Kaitlin Cook The Australian National University	Two neutron correlation measurement for nuclei beyond the neutron drip line	Professor Takashi Nakamura Tokyo Institute of Technology
Mr Sam Cook University of Tasmania	PAA is a plant hormone that could be worth billions, but how is it made, and what does it do?	Professor Hiroyuki Kasahara Tokyo University of Agriculture and Technology
Dr Xiangpeng Gao Murdoch University	Coproduction of liquid biofuels and metallurgical coke from microalgae hydrothermal carbonisation	Associate Professor Jun-Ichiro Hayashi Hokkaido University
Dr Fahrettin Haczeyni The Australian National University	Significance of "AIM" in the pathogenesis of metabolic dysregulation-associated steatohepatitis	Professor Toru Miyazaki The University of Tokyo
Mr Patrick Hayes The University of Western Australia	Optimising the allocation of phosphorus fractions in rice to improve nutrient-use efficiency	Dr Matthias Wissuwa Japan International Research Center for Agricultural Sciences (JIRCAS)
Dr Emma Lee University of Tasmania	Aiding cultural recovery of Indigenous women's fishery practices with Ama-san traditional knowledges	Professor Nobuyuki Yagi The University of Tokyo

Dr Yijun Pan Monash University	The role of fatty acid-binding protein 3 in reducing omega-6 fatty acid induced inflammation	Professor Yuji Owada Tohoku University Graduate School of Medicine
Dr Dipak Patel UNSW Australia	Study on superconducting joints of magnesium diboride conductors	Dr Akiyoshi Mastumoto National Institute for Materials Science (NIMS)
Dr Nadeesha Ukwattage Monash University	Carbonated coal fly ash as soil amendment for bioenergy feedstock production	Assistant Professor Atsushi Iizuka Tohoku University
Dr Sheng Yan University of Wollongong	High throughput, single-cell optofluidic platform for point-of-care diagnosis	Professor Keisuke Goa The University of Tokyo

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Dr Zhengfei Chen The University of Newcastle	Electrochemical applications of PEO-solvate ionic liquids as electrolytes for batteries and capacitors	Professor Rika Hagiwara University of Kyoto
Dr Zhihao Chen Monash University	Influence of ridge subduction on distribution of seismicity in continental collision zones	Professor Yasuhiro Yamada Japan Agency for Marine–Earth Science and Technology (JAMSTEC)
Ms Bintao Cui La Trobe University	Study the underlying mechanisms of glycopeptide antibiotics resistance in Staphylococcus species	Professor Longzhu Cui Jichi Medical University
Mr Yooun Heo UNSW Australia	Exploration of novel functional properties in artificial oxide heterostructures	Professor Yuichi Shimakawa University of Kyoto
Dr Javad Koohsari Baker IDI Heart and Diabetes Institute	Identifying urban design factors that promote active living	Professor Koichiro Oka Waseda University
Dr Sze Chern Lim Hudson Institute of Medical Research	Investigating the genetic causes of mitochondrial oxidative phosphorylation (OXPHOS) disease	Professor Yasushi Okazaki Saitama Medical University
Dr Patrick McCartney The Australian National University	Yoga-scapes: The economics of imagination and utopian aspirations of transglobal yoga in Japan	Associate Professor Iwatani Ayako University of Kyoto

Mr Nicolas Nagloo The University of Western Australia	The interaction of colour and motion vision in butterflies	Professor Kentaro Arikawa Sokendai (Graduate University for Advanced Studies)
Dr Ehsan Nekouei The University of Melbourne	Resilient distributed algorithms for power grids to enhance security against cyber-physical attacks.	Associate Professor Hideaki Ishii Tokyo Institute of Technology
Dr Danial Sangian University of Wollongong	Creating a new, light weighted and efficient type of EAPs artificial muscle.	Professor Yusuke Ide National Institute for Materials Science
Dr Md Nazim Uddin Victoria University	Understanding allelochemistry in aquatic allelopathic plants for regulating algal bloom in water	Professor Takashi Asaeda Saitama University
Dr Hannah Windley The Australian National University	Temperature-dependent increases in the toxicity of natural plant compounds	Dr Takuya Shimada National Research and Development Agency
Dr Binbin Zhang University of Wollongong	Use 3D bioprinting to fabricate prevascularised tissue constructs towards engineering complex tissue/organs	Associate Professor Junji Fukuda Yokohama National University
Dr Liang Zhang University of Wollongong	Molecular dynamics simulation of grain boundary behaviours in nanocrystalline metals	Associate Professor Yasushi Shibuta The University of Tokyo

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Dr Gianluca Bernardini RMIT University	Generation of future energy from green resources using Polyoxometalates and Ionic Liquids.	Dr Tadahara Ueda Kochi University
Mr Christopher Bourne The Australian National University	Topological phases of matter.	Professor Motoko Kotani Tohoku University
Dr Simin Fallah Omran Tehran University	Effects of endurance exercise training on plasma concentration and gene expression of RBP4 in obese rats.	Professor Juro Sakai The University of Tokyo
Dr Reto Hofmann Monash University	Anticommunism, social order and democracy in Twentieth Century Japan.	Professor Naoyuki Umemori Waseda University

Dr Yusef Kaneti UNSW Australia	From metal-organic framework to highly nanoporous composites for superior supercapacitor electrodes.	Dr Yusuke Yamauchi National Institute for Materials Science (NIMS)
Ms Nahyun Kwon The University of Queensland	Understanding sound symbolism in Japanese, Korean and English expressive words.	Dr Kimi Akita Nagoya University
Dr Mandy Leung The University of Adelaide	Synthetics of biocompatible polyester nanoparticles using a simple and rapid microfluidic process for effective delivery of the natural product Curcumin.	Professor Amy Shen Okinawa Institute of Science and Technology
Dr Hejie Li Griffith University	Innovative micro-manufacturing technology development of an Mg alloy and its application to micro-forming.	Professor Ken-ichi Manabe Tokyo Metropolitan University
Dr Sebastian Oberst UNSW Australia	Decoding the secret of termite communication via nonlinear time and frequency analysis of micro-vibrations	Professor Toru Otsuru Oita University
Dr Lihong Su University of Wollongong	In situ TEM/STEM investigation of interface deformation behaviour of multilayered nanocomposites.	Associate Professor Takashi Sumigawa University of Kyoto
Dr Heidi Tran RIKEN	Microtubule nucleation in dendrite patterning and regeneration.	Dr Adrian Moore RIKEN
Miss Christina Vrahnas St Vincent's Institute of Medical Research	Using in vitro and in vivo models to investigate bone matrix mineralisation.	Professor Koichi Matsuo Keio University
Dr Peng Wang UNSW Australia	Mechanism study: multi-electron reduction of oxygen on CuOx clusters on photocatalytic mineralisation reactions.	Professor Bunsho Ohtani Hokkaido University
Dr Ihssane Zouikr The University of Newcastle	The impact of maternal separation on hypothalamic neuro-circuits.	Dr Tomomi Shimogoro RIKEN