



Australian Government
Australian Research Council

2010 Australian
Laureate Fellows

Professor Min Gu

An accelerating journey to the new era of Petabyte optical memory systems

Current Organisation:	Swinburne University of Technology
Administering Organisation:	Swinburne University of Technology
Primary research field:	Photonics and Nanotechnology
National Research Priority:	Frontier Technologies for Building and Transforming Australian Industries

Professor Min Gu is University Distinguished Professor and Director of the Centre for Micro-Photonics at the Swinburne University. He is regarded as a pioneer and an international leading authority on three dimensional (3D) optical imaging science. Professor Gu has played a central role in the development of 3D optical imaging theory for advanced modern optical microscopy.

Professor Gu's project will establish a cutting-edge nanophotonic platform that will allow for the revolutionary scientific discoveries in 3D super-resolution optics as well as technological breakthroughs in ultrafast compact nonlinear optical microscopy. This paradigm-shift research will accelerate the realisation of the new age of Petabyte optical memory technology and enable our innovative discoveries to be translated into practical nanophotonic devices with substantial commercial potential for Australia.

Professor Gu was awarded his PhD from the Chinese Academy of Sciences in Optics. Once he obtained his PhD, Professor Gu then moved to Australia and has conducted his research at The University of New South Wales, The University of Sydney and Victoria University. At Victoria University, Professor Gu was Director of the Optical Technology Research Laboratory.

Professor Gu is a Fellow of the Australian Academy of Science, the Australian Academy of Technological Sciences and Engineering, the UK Institute of Physics, the Optical Society of America, the Australian Institute of Physics, and the International Society for Optical Engineering. Professor Gu is currently the Vice President of the International Commission for Optics, a council member for the Optical Society of America and a Divisional Committee member for the Australian Academy of Technological Sciences and Engineering. He has published articles in *Nature*, *Physical Review Letters*, *Nano Letters*, *Advanced Materials*, *Applied Physics Letters*, and *Optics Letters*.

Media contacts

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