

Biography

Dr. Yunhui Chen currently is a Vice Chancellor's Senior Research Fellow at the School of Engineering, RMIT University, Australia and a Visiting Scientist at European Synchrotron Research Facilities, France. Dr. Chen is an avid experimentalist, developing apparatus which replicate the processing and service performance of materials on a synchrotron beamline, enabling vision of the inside of materials as they change in real time. Dr. Chen received her PhD from the Department of Mechanical Engineering at The University of Queensland, Australia in 2015, where she subsequently undertook two prestigious fellowships in advanced manufacturing (2015-2017) before she moved to the UK for several postdoctoral fellow placements at University College London and University of Manchester. She is one of the pioneers developing a series of world-first additive manufacturing machines (both Powder Bed Fusion and blown powder Directed Energy Deposition) that work on synchrotron beamlines at Diamond Light Source, European Synchrotron Research Facilities, and Advanced Photon Source.

Her work explores the material phenomena in advanced manufacturing processes including the microstructural evolution, defect formation and phase transformations that are critical to industrial practice. Her experimental techniques have enabled the resolution of critical engineering challenges for applying additive manufacturing in the aerospace, biomedical, automobile and energy applications. She has attracted over 2 million external research funding including several ECR grants, prestigious fellowships, 30 synchrotron projects and long-term industry partnerships.

Dr Chen has established an international reputation in the field of *in situ* synchrotron X-ray imaging of additive manufacturing. She has published more than 30 peer reviewed articles on top journals in her field including Applied Materials Today, Acta Materialia, and Additive Manufacturing. Her work has been highlighted in prestigious journal Materials Today as a news article. She has been invited to present her work at the National Institute of Standards and Technology (NIST) (USA) to beamline scientists and at many international conferences. She is also a reviewer of prestigious journals including Acta Materialia, Journal of Machine Tools and Manufacture, and The Journal of The Minerals, Metals & Materials Society ("JOM").

Dr. Chen is a passionate educator. She has helped more than 20 undergraduate and graduate students with their thesis. She is also an advocate for gender equality in STEM. She received 'Women Future Leader Award' in 2015 from Monash University for her effort in encouraging female students in research.

See "[Yunhui Chen Google Scholar](#)" or "[ResearchGate](#)" for her detailed publication record.