



MQ Photonics Research Centre Webinars

When: Wednesday 04 November 2020 at 2 PM

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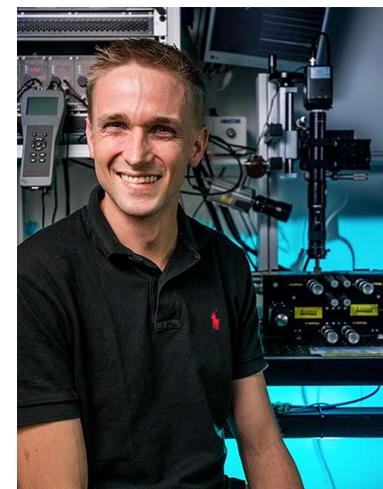
Title: Ultrafast laser inscription: Material science, the future of fibre optical networks and commercial applications

Abstract: This talk will present our quest for finding and designing the ideal glass substrate for 3D waveguide devices fabricated by ultrafast laser inscription. I will talk about why we need 3D waveguide devices in the context of fibre optical communication networks and summarise commercial applications of them in the context of Modular Photonics.

Bio: Simon received the B.Sc. degree in electrical engineering and M.Sc. degree in microelectronics from Vienna University of Technology, Vienna, Austria, in 2008 and 2009, respectively. In 2013, he received the PhD in physics from Macquarie University, Sydney, Australia. He was a Macquarie University Research Fellow, an ARC DECRA Research Fellow, was awarded a Menzies Foundation Entrepreneur Fellowship and recently an ARC Future Fellowship.

Simon is one of the founding members and CTO of Modular Photonics - a multi-award-winning spin-off from Macquarie University that commercialises 3D photonic waveguide devices.

Simon's present research interests include the fundamental interaction of ultrashort laser pulses with dielectrics and the application of ultrafast lasers to optical materials processing in particular laser direct-writing of photonic waveguide devices for the use in telecommunication, astronomy, sensing, and information processing applications. Dr Gross is a member of the Australian Optical Society, the OSA and SPIE.



Speaker: Dr Simon Gross