

PhD Scholarship - Nonlinear Dynamics of Lasers

Mon, 2017-04-03 06:50 - [Jenny Ghabache](#) [1] **At:** Macquarie University
Deadline: 20 May, 2017

Location

Macquarie University Eastern Rd
Macquarie Park 2113 Australia
33° 47' 36.474" S, 151° 8' 4.1784" E
See map: [Google Maps](#) [2]

We are seeking PhD candidates in the research of nonlinear laser systems with complex dynamics. Such systems are of emerging technological relevance in, for example, random number generation, ranging systems including for autonomous vehicles, biophotonics, and secure communications. We use big data and complexity measure approaches to build understanding of experimental, complex laser systems over large, multi-dimensional parameter spaces. This allows complete knowledge of the diversity of outputs that can be achieved from a single such system, including extreme events. Projects can be a tailored combination of design and construction of nonlinear laser systems, application of cutting-edge experimental measurements on the system, nonlinear dynamics, and high-end data analysis and handling.

PhD scholarships that can support potential candidates cover the national/international fees (International: 32,000 AUD/yr), and provide an annual stipend of ~26,600 AUD. The PhD candidature is supported with up to 15,000 AUD for travel and/or research costs over the full period of enrolment.

DEADLINE May 20 2017

To inquire about applying please email a CV. Label the Subject of your email as "PhD Application Inquiry" to

Professor Deb Kane
deb [dot] kane [at] mq [dot] edu [dot] au
<https://directory.science.mq.edu.au/users/634> [3]

- [PhD](#) [4]

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