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OF MEDICAL RESEARCH



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PERKINS Seminar Series

THURSDAY 15 MARCH



Dr Peter Munro

Royal Society University Research Fellow
Department of Medical Physics and Biomedical Engineering
University College, London

"Laboratory based X-ray phase imaging for bio-medicine"

Dr Peter Munro leads a group focussed on developing quantitative approaches to a variety of imaging techniques including optical coherence tomography, photoacoustic tomography and X-ray phase imaging. His research employs a combination of hardware and computational approaches to making these techniques quantitative. Dr Munro was an undergraduate at UWA prior to completing his PhD in the Blakett Laboratory at Imperial College London. He held a DECRA at UWA Following post-doctoral work at Imperial College and University College London. He is currently a Royal Society University Research Fellow in the Department of Medical Physics and Biomedical Engineering at University College London.

As a post-doctoral researcher, Dr Munro developed the first mathematical model of the so-called edge illumination X-ray phase imaging technique, which allowed for obtaining X-ray images of tissue with contrast derived from both the refraction and absorption of X-rays in a laboratory setting. Approximately a decade later, this technique is in the process of being translated into multiple application areas in partnership with industry. Dr Munro is currently investigating alternative X-ray phase imaging contrast mechanisms, such as dark-field imaging, and there application in biomedical imaging.

12:00noon till 1:00pm

Followed by a light lunch

For more information, please contact Brendan Kennedy

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