

# School of Optometry

## Research Seminar

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PhD

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## *Combined, eye-tracked 1060/880nm OCT – technology and techniques for monitoring the retina, choroid and sclera*

**Date** : Wednesday 25 February 2015

**Time** : 1:00pm – 2:00pm

**Venue** : Room BC216, The Hong Kong Polytechnic University

**Credit Hour** : 1

### Abstract

Optical Coherence Tomography (OCT) during its 25 years of development has been extremely successful in opening a window into the human eye. OCT completely changed the practical understanding of physiological and pathological retinal structure. This seminar presents an OCT device that is explicitly devised for imaging of the retina, choroid and sclera. Based on an eye-tracked Heidelberg Spectralis the team at the HuCe optoLab (BUAS) has successfully integrated an additional 1060nm OCT system to the existing 880nm retinal scanner at commercial-grade quality for simple clinical usage. Due to reduced scattering the simultaneously active longer wavelength channel permits to view deeper structures with higher signal strength and less artefacts and enables automated segmentation and quantification of the choroid. This lecture will investigate the device in detail, discuss the applications within the joint myopia research project and investigate future options of the technology.

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