Seminar Announcement

Friday, January 24th, 2020
12:00 pm – 1:00 pm
Olin Engineering, Room 202
Marquette University

Robert F. Cooper, Ph.D.
Assistant Professor
Department of Biomedical Engineering
Department of Ophthalmology
Marquette University and Medical College of Wisconsin

Abstract

Tracking the health of the retina with non-invasive imaging: Beyond the fundus image

The advent of adaptive optics (AO) ophthalmoscopy has enabled noninvasive visualization of cone structure in both health and disease. In this talk, I will introduce adaptive optics as a technique and show its evolution as an essential tool for researchers and clinicians alike. Additionally, I will discuss the structural and functional measurements currently in use in the field. Next, I will examine the utility and limitations of structural measurements for assessing disease. Finally, I will show how nascent functional measurements can be obtained using an AO ophthalmoscope, and explore how well these functional measurements align with our current understanding of retinal function.

++++++++++++++++++++++

Olin Engineering is located at 1515 W. Wisconsin Ave, Milwaukee, WI.
Parking is available in Structure 1 on 16th Street between Wisconsin Ave. and Wells Ave.