

## Research In Progress Seminar

# **Tuesday, May 9, 2017 3:30PM**

Location: CCBS Conference Room, 2622 Biological Sciences 3

### Speaker:

Sean Horan, Mathematics (John Lowengrub and Vasan Venugopalan Labs)

#### **Talk Title:**

Using Spatial Frequency Domain Imaging to Recover Optical Properties of Layered Tissue

#### **Abstract:**

The interrogation of layered tissue is a common problem in medical The scattering imaging. absorption spectra of each layer can reveal much about their composition, but separating the contribution of these layers can difficult for non-invasive use methods. multistep inversion process to recover data about the scattering absorption spectra of two layered tissue phantoms taken using spatial frequency domain imaging. Constraints are applied to obtain initial rough ideas as to these spectra, and are relaxed in further stages.

#### **Ouestions:**

Please contact Naomi Carreon at: <a href="mailto:ncarreon@uci.edu">ncarreon@uci.edu</a> or Kerrigan Blake at: <a href="mailto:kerrigab@uci.edu">kerrigab@uci.edu</a>