



Harvard Center for Biological Imaging Summer 2019 Lunch and Learn Lecture Series

***new* please register on Eventbrite to attend!**

Jun 4th-6th

New Approaches in Light Microscopy Workshop

Discover the state of the art in imaging with talks and demos given by academic and industry experts. RSVP on Eventbrite required.

Jun 12th

What's in an image?

12:00PM

Christian Hellriegel will explore image analysis methods: from the basics of image data to cutting edge machine learning tools.

June 26th

Can you paint with all the colors?

12:00PM

Erin Diel will discuss multi color imaging, from the selection of appropriate fluorophores to methods of spectral unmixing.

Jul 10th

Let your light shine down

12:00PM

Erin Diel will discuss methods of illuminating your sample, from classic transmitted light techniques to novel approaches in patterned excitation.

Jul 24th

Computational imaging: algorithm driven microscopy

12:00PM

Dushan Wadduwage, John Harvard Distinguished Science Fellow, will discuss how to design and build microscopes and image reconstruction algorithms that acquire compressed versions of images, making them much faster than conventional microscopes. He will cover classical compressive sensing framework used to design these systems as well as cutting edge machine learning based approaches.

Aug 7th

ELYRA7: our new super-resolution platform

12:00PM

Christian Hellriegel will introduce our newest instrument, the ELYRA7, a versatile super-resolution platform (live-cell, SIM, PALM, STORM).

Aug 21st

Image analysis pipelines with KNIME and Ilastik

12:00PM

Andrew Seeber, John Harvard Distinguished Science Fellow, will demonstrate building image analysis pipelines with KNIME, using interactive image segmentation with Ilastik as an example. KNIME integrates all steps of image analysis into a manageable, node-based workflow and is compatible with ImageJ, MATLAB, etc.

**Location: BioLabs Lecture Hall Rm 1080
16 Divinity Avenue, Cambridge, MA**

This lecture series is designed to provide information on applications and techniques available in the HCBI. *You do not need to be a member of the facility to attend!*

For further information, please contact Doug Richardson (drichardson@fas.harvard.edu).

Pizza and drinks provided by Carl Zeiss Microscopy, LLC

