Lester Wolfe Workshop in Laser Biomedicine

How to Train Your Machine: Deep Learning in Biomedicine



Deep Learning is rapidly becoming a powerful toolkit in biomedical science, capable of tackling challenging problems ranging from information processing to image analysis and clinical diagnostics. Arising from the machine learning family of methods, our current deep learning revolution has been powered by the advent of inexpensive but powerful graphical processing units that provide formally super-computer levels of computational power in a single card. When applied correctly, deep learning models can far outperform deterministic programming, enabling breakthroughs in image classification and feature extraction. This workshop will focus on the application of deep learning tools in biomedical imaging in disciplines ranging from neuroscience to pathology, with a focus on quantitative data analysis.



Rafeal Yuste, MD, PhD, Co-Director of The Kavil Institute for Brain Sciences, Professor of Departments of Biological Sciences and Neuroscience; Columbia University



Rohit Bhargava, PhD,
Professor of
Engineering in the
Department of
Bioengineering
University of Illinois at
Urbana-Champaign



Conor Evans, PhD, Assistant Professor; Harvard Medical School, Wellman Center for Photomedicine



Nick Durr, PhD,
Assistant Professor,
Biomedical Engineering
and the Director of
Undergraduate Programs
at the Center for
Bioengineering
Innovation and Design;
Johns Hopkins University

(Titles to be announced)



Tuesday, May 14st, 2019

3:30-6:00 PM

Massachusetts General Hospital Simches Research Building,

3rd Floor, Room 3110 185 Cambridge Street, Boston, MA

Refreshments served at 3:00 PM, Room 3110 No R.S.V.P. required

Sponsored by the MIT Laser Biomedical Research Center, MIT, MGH Wellman Center for Photomedicine, and the Harvard-MIT Division of Health Sciences and Technology