

# Apr 24, Harris, NCI-funded Clinical Trials Imaging Informatics, Machine Learning, and Open Source Web Viewer Technologies



Over the past 15 years, our group at the Dana-Farber/Harvard Cancer Center (DF/HCC) has built an evolving oncology clinical trials imaging informatics platform, Precision Imaging Metrics. This platform was built by and for the DF/HCC Tumor Imaging Metrics Core to manage the workflow, image assessments, communication, reporting, billing, and compliance needs of our cancer center and is currently used as a CCSG shared resource to manage over 1,000 active DF/HCC clinical trials and over 15,000 time point assessments per year, with turnaround time as fast as one hour after the scan. This software has been implemented at seven NCI-designated Cancer Centers around the country to improve clinical trials imaging assessment quality, compliance, and efficiency. NCI funding has been critical in the development and evolution of this software platform: a variety of grant mechanisms (CCSG, ITCR U24, SBIR, AIP) have supported our efforts in various ways as the project has grown and matured. This presentation will summarize the phases of the project and the ways NCI funding has supported us throughout the product life cycle.

[Session details...](#)

## **BIO:**

Gordon J. Harris, Ph.D. is the co-Director of the DF/HCC Tumor Imaging Metrics Core (TIMC), and Director of the MGH 3D Imaging Service. He is involved in imaging research, focusing on image analysis and visualization techniques, and application of these methods in both research and clinical services. Dr. Harris has developed methods for semi-automated quantitative measurement of tumor volumes, and these methods have been licensed and FDA-approved for clinical use. He and his team created the Precision Imaging Metrics software system to manage the workflow, imaging assessments, reporting, auditing, and billing for imaging trials, and to provide a centralized quantitative image analysis service for the DF/HCC community. This system is licensed for use at several other Cancer Centers.

## **SUMMARY:**

**Topic:** NCI-funded Clinical Trials in Imaging Informatics, Machine Learning, and Open-Source Web-Viewer Technologies

**Speaker:** Gordon J. Harris, Ph.D., Massachusetts General Hospital

**Date:** April 24, 2019

**Time:** 11:00 a.m. – 12:00 p.m.

**Room:** 3E032-034

You are invited to listen to Dr. Harris' presentation in the NCI Shady Grove Building on Medical Center Drive or via WebEx. **Dr. Harris will present remotely via WebEx.**

**Presentation:** A screencast of the presentation will be available for viewing after the event on the [NCI CBIIT Speaker Series YouTube Playlist](#).

*About the NCI CBIIT Speaker Series:*

The National Cancer Institute (NCI) Center for Biomedical Informatics and Information Technology (CBIIT) Speaker Series presents talks from innovators in the research and informatics communities. The biweekly presentations allow thought leaders to share their work and discuss trends across a diverse set of domains and interests. The goals of the Speaker Series are: to share leading-edge research; to inform the community of new tools, trends, and ideas; to inspire innovation, and to provide a forum from which new collaborations can begin. For additional information, including past speaker series presentations, visit the [CBIIT Speaker Series page](#).

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