



**Deep Learning Program  
Triangle Machine Learning Day  
September 20, 2019**

**SPEAKER TITLES/ABSTRACT**

**Matthew Phillips**  
LifeOmic

“Biomedical Image Understanding and EHRs at LifeOmic: Harnessing the Power of the Cloud”

In this talk I'll discuss work in biomedical image and volume segmentation and classification, as well as outcome prediction modeling from insurance claims data that I've pursued at LifeOmic here in the Triangle. In the former case datasets include radiological image volumes, retinal fundus images, and cell images created with fluorescent microscopy. The latter includes MIMIC-III data represented as FHIR objects. I'll discuss the relative challenges and advantages of doing ML locally vs. on a cloud-based platform.