

The recent confluence of different technologies in imaging, computation, and hardware miniaturization is disrupting the remote sensing imaging field. As demands for information from data analytics increases so must the workflow of imagery.

The traditional analysis based on a handful of remote sensing images using statistical and physics-based techniques is being upended by the proliferation of distributed computation coupled with rapid access to large image libraries formerly buried in difficult to access data storage architectures.

Cloud-based storage and processing frameworks afforded by Python and Jupyter notebooks lower the barrier to entry for scientists from different disciplines to start harnessing the potential of imagery to put invaluable context to various scales of observations such as population distributions, crop health, and other indicators of economic health. The merging of these vector observations with the raster patterns provided by imagery drives insights to very complex systems that require corroboration among all these observables.

I will share my experiences in imaging and remote sensing as a student here in Imaging Science, my tenure with the government both from a technical and policy perspective, and my current position as "technical evangelist" for Digital Globe using the GBDX technology. While the talk is heavily geared to the remote sensing imaging problem, we believe the process and workflow will be applicable to data analysis of which imagery is but one component.

I will also be conducting hands-on workshop on GDBX Notebooks technology and those interested can see details at [bitly.com/RIT-GBDX-WORSHOP-2019](https://bitly.com/RIT-GBDX-WORSHOP-2019)