



# NextGen Geospatial

## Data Science Workshop at the University of Arizona

Register Here!

[https://github.com/ua-datalab/Geospatial\\_Workshops/wiki](https://github.com/ua-datalab/Geospatial_Workshops/wiki)

Step out of conventional GIS frameworks and discover the latest trends in geospatial data science where open tools and cloud technologies are innovating earth observation and environmental monitoring.

Emphasizing open science and reproducible methods, this immersive hands-on workshop series will:

- Guide you through essential python libraries
- Introduce you to cloud-native formats
- Show you how to harness cloud computing platforms
- Help you build geospatial analysis pipelines

Each workshop session is designed to be a discrete lesson where students will walk away with specific knowledge on a tool and resources to explore deeper.

The series is open to all University of Arizona personnel and is tailored for graduate students, postdocs, and early career faculty looking to expand their geospatial skills.

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<b>Dates</b>	Jan. 16 - April 23, 2024
<b>When</b>	Tuesdays 2-3 pm Arizona Time
<b>Where</b>	Weaver Science-Engineering Library Room 212
<b>Zoom</b>	<a href="http://tinyurl.com/uadatalab">http://tinyurl.com/uadatalab</a>

### Schedule

1/16/24: Geospatial Data APIs  
 1/23/24: Data Formats: Raster & Vector  
 1/30/24: Python Visualization  
 2/06/24: Intro to Xarray & Zarr  
 2/13/24: Intro to Cloud Native  
 2/20/24: Cloud Optimized Geotiffs  
 2/27/24: Cloud Optimized Point Clouds  
 3/05/24: Spring Break  
 3/12/24: SpatioTemporal Asset Catalogs  
 3/19/24: Google Earth Engine  
 3/26/24: Planet Satellite Imagery  
 4/02/24: Microsoft Planetary Computer  
 4/09/24: OpenDroneMap  
 4/16/24: Drone Imagery Analysis  
 4/23/24: Containerized Pipelines