

Tyler Anderson

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Washington D.C. Area, USA

Experience

**Feb 2021 -
Present**

Remote Sensing Manager; Floodbase (Remote)

- Manage data production team in producing and delivering flood maps, reports and indexes to customers, including [media](#).
- Design and implement processing workflows to ingest and store satellite data, which have ingested 400 TB of data and more than 1 Million STAC items.
- Implement clients and processing workflows to interact with NASA, USGS, ESA, and Planet APIs.
- Manage pre-sales scoping for product fit and recommendations during custom implementations.
- Manage user feedback (internal & external) of engineering feature rollouts and provide testing.
- Train users on flood data and dashboard, including international workshops.

**Aug 2019 -
Feb 2021**

Remote Sensing Scientist; Floodbase (Brooklyn, NY)

- Improved and identified errors in algorithms for flood detection from optical and SAR satellite imagery.
- Built GUI used for quality control of over 30 years of satellite data and tracking algorithm errors.
- Created datasets for deep learning of floods, including the publicly available [sen1floods11](#) and [C2S-MS Floods Dataset](#).
- Train users on how to utilize data and maps and utilize customer dashboard.

**Jun - Aug
2018**

NASA DEVELOP Participant; SSAI (Moffett Field, CA)

- Extracted coastal water quality from Landsat and Sentinel-2 imagery for base-line period before and months after hurricanes Irma and Maria using ACOLITE and R.

**Jan - May
2018**

GIS Help Desk Assistant; Clark University (Worcester, MA)

- Provided one-on-one tutoring and guidance to students in department on GIS tasks.
- Debug issues and provide recommendations.

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| Jun - Aug 2017 | NOAA Fellowship ; NOAA (Silver Spring, MD) <ul style="list-style-type: none"> Used MODIS satellite-derived bathymetry (SBD) and Kd_Rhos (proxy for turbidity) to understand the relationship between SBD and turbidity, validated with LiDAR based bathymetry. |
| May - Jul 2016 | HERO Fellowship ; Clark University (Worcester, MA) <ul style="list-style-type: none"> Conducted field work collecting data on juvenile tree health across the City of Worcester. Ran data analysis to investigate survivorship factors. |

Education

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|--------------------|---|
| 2018 - 2019 | MS, GIScience ; Clark University (Worcester, MA)

<i>Thesis title: Gypsy Moth from Above: Using Landsat Sentinel-2 Fusion Products to Track the Impact of Gypsy Moth in Southern New England</i>

Teaching Assistant
Python Programming for GIS
Field Methods |
| 2014 - 2018 | BA, Environmental Science ; Clark University (Worcester, MA)

<i>Honors thesis: Trends in Forest Cover: Semi-Automated Classification of Forest Cover in Massachusetts for 2015</i> |

Technical Knowledge

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| Geospatial | GDAL, rasterio , xarray, shapely, geopandas, Google Earth Engine , ESA SNAP, QGIS |
| Programming | Python , Docker , R, Git, R, JavaScript |
| Cloud | GCP Cloud Build , GCP Cloud Function, GCP Dataflow |