

Jacob Frankel

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Education

August 2018 - June 2021

Clark University, Worcester MA - *Master of Science: Geographic Information Science*

August 2018 - June 2021

Clark University, Worcester MA - *Bachelor of Arts: Geography/GIS*

Skills

GIS: ESRI ArcGIS Pro, ArcMap, Arcpy, QGIS, Google Maps API, leaflet.js, ArcGIS API for JavaScript

Remote Sensing: IDRISI TerrSet, Google Earth Engine

Programming/Coding: Python, JavaScript, R, HTML, CSS

Experience

June 2021 - August 2021

NASA DEVELOP Team Member - *NASA/System Science and Applications (SSAI), Huntsville, AL*

- Analyzed land cover change and wetland health along the coast of Delaware using Landsat and NAIP imagery.
- Classified wetland areas for multiple years using a Random Forest algorithm.
- Predicted future wetland land cover changes using the TerrSet Land Change Modeler.
- Presented work to the Delaware Department of Natural Resources and Environmental Control, who will use the work to help create new protected areas.

March 2021 - June 2021

Land Cover Change Research Volunteer - *Army Corps of Engineers, Remote*

- As a student in the Advanced Remote Sensing class, I had an opportunity to volunteer with the USACE as a part of their Poplar Island Restoration Project.
- Determined the areal extent of Poplar Island, MD based on GeoEye-1 satellite imagery.
- Determined the distribution of land cover classes.
- Detected and assessed vegetation trends over the last ten years.

June 2020 - August 2020

Telephone Representative - *ViV Web Solutions, Boston, MA*

- Managed a database of client and potential client information.
- Reached out to clients and potential clients over the phone and over email to answer questions about ViV Web Solutions' services.

June 2019 - August 2019

Horticulture Intern - *Central Park Conservancy, New York, NY*

- Maintained a small area in Central Park in New York City.
 - Tasked with mowing several lawns, nurturing plant and tree beds, interacting with the public, and removing trash.
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Related Coursework

Intro to Remote Sensing, Advanced Remote Sensing, Advanced Raster GIS, Geospatial Analysis with R, Python Programming, Computer Programming for GIS, Web Mapping and Open Source GIS