

# Peter Whitman

St. Paul, MN | [peterjosephwhitman@gmail.com](mailto:peterjosephwhitman@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Google Scholar](#)

## Experience

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### Planet Labs

St. Paul, MN

*Solutions Engineer II*

03/2024 – Present

- Applied expertise in remote sensing and geospatial technologies to ensure that customers successfully adopt Planet's data and platform.
- Built software tools, proofs of concept, and sample applications.
- Provided in-person and online assistance through conference presentations, technical tutorials, and published articles.

### U.S. Environmental Protection Agency

Raleigh, NC

*Oak Ridge Institute of Science and Education Research Fellow*

09/2019 – 09/2022

- Completed competitive fellowship program and produced eight peer-reviewed publications and multiple technical reports.
- Led projects in collaboration with NASA to evaluate water quality applications of multispectral, hyperspectral, and synthetic aperture radar (SAR) satellites.
- Developed software and machine learning models in Python, JavaScript, and R to analyze terabytes of satellite and geospatial data using high-performance computing (HPC) resources.

### University of British Columbia

Vancouver, BC

*Graduate Research Assistant*

05/2018 – 08/2019

- Developed innovative image processing techniques in MATLAB and developed machine learning algorithms for image classification in Python to automate analysis of historical airborne image data.
- Conducted advanced spatial and aspatial analysis of population mortality in R.
- Mined, cleansed, and analyzed geospatial data using R and SQL to identify variables that influence cardiac arrest outcomes.

*Graduate Teaching Assistant*

09/2017 – 05/2019

- Taught 300+ students geographic information science and remote sensing.
- Provided comprehensive learning opportunities through live Python and ESRI ArcGIS demonstrations, labs, lectures, and individualized assistance.

## Education

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### University of British Columbia

Vancouver, BC

*Master of Science, Geography*

09/2017 – 08/2019

### Carthage College

Kenosha, WI

*Bachelor of Arts, Geographic Information Science and Environmental Science*

09/2013 – 05/2017

## Skills

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**Languages:** Python (GDAL, TensorFlow, OpenCV, NumPy, ArcPy, Matplotlib, netCDF4, Pandas, GeoPandas, Rasterio), R (ggplot2, raster, ncd4, stats, caret, sp, sf, rgdal, spatstat, maxent, boot, glm), MATLAB, JavaScript, SQL

**Technology Stack:** Unix shell, Visual Studio Code, RStudio, MATLAB IDE, Google Earth Engine, GitHub, ESRI ArcGIS Products, ENVI/IDL, Agisoft Metashape, Adobe Photoshop, Adobe Illustrator, Google Workspace, Microsoft Office Suite, Slack, Google Cloud Platform, Jira, Salesforce

**Methods:** data science, statistics (Bayesian and frequentist), machine learning (random forest, support vector machine, neural networks), spatiotemporal statistics, geospatial analysis, object-based image analysis, image processing, image classification, geometric correction, atmospheric correction, data visualization, cartography, high performance computing (HPC), parallel processing