


# Ross Kalter

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[LinkedIn](#) 

Early-career ecologist and geoscientist. Experienced in Earth observation, UAV and satellite analysis, and translating spatial datasets into actionable insights for landscape and ecosystem monitoring

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## Experience

### **NASA DEVELOP — Project Technical Lead**

Huntsville, AL | Sep 2022 – Nov 2022

- Designed and executed advanced GIS and remote sensing workflows for the Mesoamerican Biological Corridor.
- Conducted supervised land cover classification and time series analysis using 20+ years of Landsat imagery to detect forest loss and fragmentation ([Presentation](#) | [Technical Report](#)).
- Produced high-resolution maps, technical reports, and academic posters for SERVIR partners and NASA engineers while coordinating remotely with interdisciplinary teams to ensure reproducibility and actionable results.

### **CROSSMAR Lab — Remote Sensing Research Assistant**

Haifa, Israel | Dec 2021 – Mar 2022

- Applied UAV imagery and MODIS EO datasets to monitor spatial-temporal ecosystem dynamics.
- Conducted correlation analyses of phytoplankton and chlorophyll concentrations across multiple sites and processed/visualized ~10,000+ geospatial observations in Python/Jupyter for publications and presentations.

### **OGC Global — Junior Data Scientist**

Remote | Jun 2022 – Aug 2023

- Analyzed large-scale datasets (30M+ records) to model subscriber migration and retention under product and pricing strategies, generating actionable insights.
- Automated workflows and delivered dashboards, reports, and recommendations, collaborating remotely with interdisciplinary teams (~50% efficiency gain).

### **Agritask — Geospatial Data Science Intern**

Tel Aviv, Israel | Jun – Aug 2019

- Built a Python-based geospatial pipeline integrating satellite and field data for agricultural monitoring.
- Developed KNN spatial interpolation model using GeoPandas to predict medfly infestations and water availability.

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## Education

### **University of Haifa, Israel — M.A. Spatial Information Systems (GIS & Remote Sensing)**

Oct 2025 – Present

### **University of California, Berkeley — B.A. Geospatial Data Science**

Aug 2017 – Aug 2021

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## Skills & Interests

**Computation & Analysis:** ArcGIS, Python, R-Studio, Jupyter, SQL, JavaScript, Matlab, Google Earth Engine

**Languages:** English (5), Hebrew (B2), Spanish (A2), French (A1)