

# Nicole Keeney

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## EDUCATION

### Atmospheric Science, B.A. (Hons)

University of California, Berkeley

📅 Dec 2020

GPA: 3.7

## SKILLS

- Python (xarray, pandas, numpy, matplotlib, scipy, cartopy, bokeh, zarr, rasterio)
- R (netcdf, stars, raster)
- Data visualization
- High Performance Computing
- Google Cloud & Colab
- Model Development & Validation
- Time Management
- Science Communication

## LANGUAGES

English (native speaker)  
Spanish (conversationally fluent)  
Portuguese (high beginner)

## RESUME SUMMARY

Fast learning, detail oriented geospatial data analyst with a background in computational earth science research. Highly qualified with python data science modules for visualization, wrangling, and statistical analysis of climate model and remote sensing data.

## WORK EXPERIENCE

### UC Berkeley School of Public Health, Division of Environmental Health Sciences

*Junior Specialist (half-time)* 01/2021 – 02/2022

*Undergraduate Student Researcher* 10/2020 – 12/2020

- Calibrated a wind erosion model in California using remote sensing-derived vegetation data.
- Performed data extractions and zonal statistics using python and R for various environmental datasets utilizing a high performance computing environment.

### University of Maryland / NASA Goddard Space Flight Center

*Faculty Research Assistant (half-time, remote)* 01/2021 – 01/2022

- Contributed to the development of a cloud-optimized python toolkit to streamline polar climate model validation using satellite data. Project emphasized interactive plotting techniques and data management with Google Cloud and zarr.

### NASA Goddard Space Flight Center

*Summer Intern (remote)* 06/2020 – 08/2020

- Built an [interactive Jupyter Book](#) to highlight python code for evaluating potential drivers of winter sea ice growth in the Arctic using gridded data from NASA's ICESat-2 satellite.

### UC Berkeley College of Natural Resources, Department of Environmental Science & Policy

*Undergraduate Student Researcher* 10/2019 – 12/2020

- Conducted original research for an undergraduate thesis.
- Utilized eddy covariance flux measurements and a planetary boundary layer model to evaluate a drought index using python data science packages.

### Berkeley Air Monitoring Group

*Air Quality Intern* 02/2018 – 10/2018

- Performed air quality instrument repair, calibration, and management, including laboratory testing.
- Analyzed quantitative and qualitative health data related to indoor air pollution and impact evaluation.