

# Nicole Keeney

## PERSONAL INFO

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## EDUCATION

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

University of California, Berkeley

📅 Dec 2020      📊 GPA: 3.7

## SKILLS

- Python (xarray, dask, pandas, numpy, matplotlib, scipy, cartopy, bokeh, zarr, pyproj, geopandas, metpy)
- R (netcdf, stars, raster)
- Data visualization
- High Performance Computing
- Google & Amazon Cloud
- Git/GitHub: version control & open-source code development
- Model Development & Validation
- Time Management
- Science Communication

## RESUME SUMMARY

Fast learning, detail-oriented climate data scientist 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

### Eagle Rock Analytics

Summer Research Associate (remote) 06/2021 – present

- Developing python code for the [Cal-Adapt Analytics Engine](#), a cloud-based climate data analytics platform for California's energy sector.

### 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.