NICOLE KEENEY

RESUME SUMMARY

Fast-learning, detail-oriented geospatial 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

NASA Goddard Space Flight Center, Cryospheric Sciences Laboratory / University of Maryland

Research Assistant (half-time, remote) — *Jan 2021 – present*

Summer Intern (remote) — *June 2020 – Aug 2020*

- Developing a cloud-optimized python toolkit to streamline polar climate model validation using satellite data. Project emphasizes interactive plotting techniques and data management with Google Cloud and zarr.
- Built an interactive Jupyter Book to highlight python code for evaluation of potential drivers of winter sea ice growth in the Arctic.

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

Junior Specialist (half-time) — *Jan 2021 – present*

Undergraduate Student Researcher — *Oct 2020 – Dec 2020*

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

UC Berkeley, Department of Environmental Science & Policy

Undergraduate Student Researcher — *Oct 2019 – Dec 2020*

- Conducted original research for an undergraduate honors thesis where I evaluated a drought index using eddy covariance flux measurements and a planetary boundary layer model.

Berkeley Air Monitoring Group

Air Quality Intern — *Feb 2018 – Sep 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.

PERSONAL INFO

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EDUCATION

Atmospheric Science, B.A.

University of California, Berkeley

Aug 2017 – Dec 2020

GPA: 3.7

SKILLS

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