Nicole Keeney

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EDUCATION

Atmospheric Science, B.A.

University of California, Berkeley

2017 – 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

LANGUAGES

English (native speaker)

Spanish (conversationally fluent)

Portuguese (high beginner)

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

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

- Developed 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 evaluation of potential drivers of winter sea ice growth in the Arctic.

UC Berkeley, Department of Environmental Science & Policy

Undergraduate Student Researcher 10/2019 – 12/2020

- 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 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.