LUCIEN SIMPFENDOERFER

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Overview: Analyzed hundreds of gigabytes of observational and modeling data to better understand the Arctic climate. Now transferring analytical skills to a career in data science.

Skills

Languages	Python, Matlab, SQL, Unix, HTML/CSS, Fortran
Data Analysis	Machine learning, statistical modeling, geospatial analysis
Other	Scientific communication, technical writing

Experience

Data Engineering Contractor, Flux Tailor, New York, NY   Feb 2019 - Mar 2019

- Created a Python data processing pipeline to collect, clean, standardize, and merge public data on over 10 million properties in New York and Maryland.
- Worked extensively with geospatial data analysis libraries: geopandas, shapely, fiona.

Graduate Research Assistant, Penn State University   Aug 2016 - Aug 2018

- Used ~100 GB of observational and modeling data to study Arctic clouds.
- Debugged and built on 50,000-line, single-column climate model in Fortran.
- Wrote Matlab code to process, analyze, and synthesize results from >2000 simulations.
- Lead author for a scientific publication.

Hollings Scholar Researcher in Climate Science,   Summer 2016
NOAA Earth System Research Laboratory

- Wrote code to clean, merge, and analyze >500GB of observations from five instruments at two Arctic locations.
- Received top award for conference presentation.

Research Intern in Climate Science,   Summers 2014, 2015
NASA Goddard Institute for Space Studies

- Wrote code to evaluate regional climate model precipitation forecasts over West Africa.
- Built skills in collaboration, teaching, and communication: led a NYC high school student and science teacher through the entire research and data analysis process.

Education

Pennsylvania State University, *Summa Cum Laude, GPA 4.0*
- MS in Atmospheric Science   Aug 2016 - Aug 2018
- BS in Atmospheric Science   Aug 2013 - Aug 2016

University Centre in Svalbard, Svalbard, Norway   Jan 2016 - Jun 2016
- Research and field experience in the high Arctic

Honors/Awards

- NOAA Hollings Scholarship   2015-2017
- Student Marshall, Penn State College of Earth and Mineral Sciences   2018
- Oral presentation winner, Hollings Symposium   2016