

# LUCIEN SIMPFENDOERFER

## Data Scientist

**Overview:** Data Scientist with four years of experience drawing insight from datasets as large as 500 GB. I am thorough, unafraid to dig into the details of complicated datasets/models, and have a proven track record for taking ownership of difficult projects and delivering high-quality results. I also have a demonstrated ability to clearly communicate technical information to non-technical audiences.

## Experience

- 2016-2018 **Graduate Research Assistant**, Pennsylvania State University
- Studied formation of Arctic stratocumulus clouds
  - Independently debugged and built on 50,000-line numerical atmospheric model.
  - Wrote code to post-process, analyze, and synthesize results from >2000 simulations.
  - Lead author for a scientific publication (submitted to Journal of Geophysical Research).
- Summer 2016 **Hollings Scholar Researcher in Climate Science**, NOAA Earth System Research Laboratory
- Statistically characterized Arctic stratocumulus clouds using a decade of raw observations.
  - Wrote code to process, organize, and analyze >500GB of data from multiple data streams.
  - Communicated results through two conference presentations; received top award for the first.
- Summers 2014, 2015 **Research Intern in Climate Science**, 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.

## Activities

- 2013-2017 **Co-founder and Co-president**, Penn State Fossil Fuel Divestment Campaign
- Strengthened leadership, science communication, and organizational skills by planning events, collaborating with student groups, and coordinating with Penn State admins.

## Education

- 2013-2018 **Pennsylvania State University**
- MS in Meteorology and Atmospheric Science
  - BS in Meteorology and Atmospheric Science
  - *Summa Cum Laude*, GPA: 4.00
  - Schreyer Honors College
- Spring 2016 **University Centre in Svalbard**
- Research and field experience in the high Arctic

## Personal Info

### Phone

347 907-3519

### E-mail

lucien.simpfendoerfer@gmail.com

### www

lucien-sim.github.io

## Computer skills

Python	<div><div></div><div></div><div></div><div></div><div></div></div> Fluent
SQL	<div><div></div><div></div><div></div><div></div><div></div></div> Advanced
Matlab	<div><div></div><div></div><div></div><div></div><div></div></div> Fluent
Fortran	<div><div></div><div></div><div></div><div></div><div></div></div> Advanced
Unix/Bash	<div><div></div><div></div><div></div><div></div><div></div></div> Proficient
HTML/CSS	<div><div></div><div></div><div></div><div></div><div></div></div> Basic

## Other skills

Statistical modeling

Machine learning

Scientific communication

Technical writing

Copyediting

German (proficient)

## Honors/Awards

NOAA Hollings Scholarship  
2015-2017

Student Marshall, Penn State College of Earth and Mineral Sciences  
2018

Oral presentation winner, Hollings Symposium  
2016