Lucas J. Sterzinger

Curriculum Vitae

Address and Phone Censored for GitHub

https://github.com/lsterzinger

EDUCATION

PhD, Atmospheric Science

2017 - Present

University of California, Davis, Davis, CA

Anticipated: Fall 2022

Bachelor of Science, Atmospheric Sciences

2012 - 2017

University of North Dakota, Grand Forks, ND

Minor: Mathematics

Bachelor of Science, Aeronautics

2012 - 2017

University of North Dakota, Grand Forks, ND

WORK EXPERIENCE

Graduate Student Researcher

2017 - Present

Atmospheric Science Graduate Group, UC Davis

Dr. Adele Igel, Faculty Advisor

- Works on various research related to cloud and precipitation physics. Projects include:
 - Effect of ice crystal habit (shape) on orographic snowfall in the Sierra Nevada Mountains.
 (Funding: Internal)
 - Examining the relationship between mixed-phase Arctic cloud dissipation and aerosol properties. (Funding: DOE ASR)

Intern Summer 2021

Summer Internship in Parallel Computational Science (SIParCS) National Center for Atmospheric Research (NCAR), Boulder, CO

• Worked on development of tools to access cloud-hosted netCDF4 data

Undergraduate Research Assistant

2016-2017

Dept. of Atmospheric Sciences, University of N. Dakota

Dr. Gretchen Mullendore, Faculty Advisor

• Worked on the "Big Weather Web" project examining potential uses for cloud infrastructure for numerical weather prediction.

Undergraduate Teaching Assistant

2015-2017

Dept. of Atmospheric Sciences, University of N. Dakota

• Independently taught Introduction to Meteorology lab, complete with weekly lectures and laboratory experiments.

Technical Support Specialist

2012-2017

Univ. of N. Dakota School of Medicine and Health Sciences

• Responsible for direct technology support to faculty, staff, and students. Also worked on managing video conference sytems, networks, and servers.

SERVICE

UC Davis Graduate Student Association

• General Assembly Representative	2019-Present
• Elections Committee	2019-2020
UC Davis Academic Senate	
Committee on Information Technology	
Graduate Student Representative	2020-2021
PUBLICATIONS	
The Effects of Ice Habit on Simulated Orographic Snowfall Sterzinger, L. J., & Igel, A. L Journal of Hydrometeorology https://doi.org/10.1175/JHM-D-20-0253.1	2021
Models in the Cloud: A Cost Exploration	
of Cloud Computing for the Atmospheric Sciences	Nov. 2017
News@Unidata Blog https://www.unidata.ucar.edu/blogs/news/entry/models-in-the-cloud-a	
CONFERENCES	
Arctic Mixed-Phase Cloud Dissipation and Its	
Relationship to Low CCN Concentrations [Poster]	Jan. 2021
American Meteorology Annual Meeting 2021	
Effects of Aerosol Concentration on the Dissipation	
of Arctic Mixed-Phase Clouds [eLightning]	Dec. 2020
American Geophysics Union Fall Meeting 2020	
Effect of Ice Habit on Modeled	
Predictions of Orographic Precipitation [Poster]	Dec. 2019
American Geophysics Union Fall Meeting 2019	
Effects of Ice Habit on Sierra Nevada Snowfall	
and Implications for Climate Change [Poster]	Dec. 2018
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COMPUTER SKILLS

 $Languages\ \&\ Software:$ Python, Julia, MATLAB, Fortran, C $Operating\ Systems:$ Unix/Linux, MacOS, Windows

American Geophysics Union Fall Meeting 2018

MEMBERSHIPS

American Meteorological Society American Geophysics Unions

LANGUAGES

English

French (Bilingual Fluency) German (2 years of courses)