

Lucas J. Sterzinger
Curriculum Vitae

Address and Phone Censored for GitHub
<https://github.com/lsterzinger>

EDUCATION	<i>PhD</i> , Atmospheric Science University of California, Davis, Davis, CA Anticipated: Fall 2022	2017 - Present
	<i>Bachelor of Science</i> , Atmospheric Sciences University of North Dakota, Grand Forks, ND Minor: Mathematics	2012 - 2017
	<i>Bachelor of Science</i> , Aeronautics University of North Dakota, Grand Forks, ND	2012 - 2017
WORK EXPERIENCE	<i>Graduate Student Researcher</i> Atmospheric Science Graduate Group, UC Davis Dr. Adele Igel, Faculty Advisor	2017 - Present
	<ul style="list-style-type: none">• Works on various research related to cloud and precipitation physics. Projects include:<ul style="list-style-type: none">– 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)	
	<i>Intern</i> Summer Internship in Parallel Computational Science (SIParCS) National Center for Atmospheric Research (NCAR), Boulder, CO	Summer 2021
	<ul style="list-style-type: none">• Worked on development of tools to access cloud-hosted netCDF4 data	
	<i>Undergraduate Research Assistant</i> Dept. of Atmospheric Sciences, University of N. Dakota Dr. Gretchen Mullendore, Faculty Advisor	2016-2017
	<ul style="list-style-type: none">• Worked on the “Big Weather Web” project examining potential uses for cloud infrastructure for numerical weather prediction.	
	<i>Undergraduate Teaching Assistant</i> Dept. of Atmospheric Sciences, University of N. Dakota	2015-2017
	<ul style="list-style-type: none">• Independently taught Introduction to Meteorology lab, complete with weekly lectures and laboratory experiments.	
	<i>Technical Support Specialist</i> Univ. of N. Dakota School of Medicine and Health Sciences	2012-2017
	<ul style="list-style-type: none">• Responsible for direct technology support to faculty, staff, and students. Also worked on managing video conference systems, networks, and servers.	

SERVICE	<i>UC Davis Graduate Student Association</i>	
	• General Assembly Representative	2019-Present
	• Elections Committee	2019-2020
	<i>UC Davis Academic Senate Committee on Information Technology</i>	
	Graduate Student Representative	2020-2021
PUBLICATIONS	<i>The Effects of Ice Habit on Simulated Orographic Snowfall</i>	2021
	Sterzinger, L. J., & Igel, A. L. - <i>Journal of Hydrometeorology</i>	
	https://doi.org/10.1175/JHM-D-20-0253.1	
	<i>Models in the Cloud: A Cost Exploration of Cloud Computing for the Atmospheric Sciences</i>	Nov. 2017
	News@Unidata Blog	
	https://www.unidata.ucar.edu/blogs/news/entry/models-in-the-cloud-a	
CONFERENCES	<i>Arctic Mixed-Phase Cloud Dissipation and Its Relationship to Low CCN Concentrations [Poster]</i>	Jan. 2021
	American Meteorology Annual Meeting 2021	
	<i>Effects of Aerosol Concentration on the Dissipation of Arctic Mixed-Phase Clouds [eLightning]</i>	Dec. 2020
	American Geophysics Union Fall Meeting 2020	
	<i>Effect of Ice Habit on Modeled Predictions of Orographic Precipitation [Poster]</i>	Dec. 2019
	American Geophysics Union Fall Meeting 2019	
	<i>Effects of Ice Habit on Sierra Nevada Snowfall and Implications for Climate Change [Poster]</i>	Dec. 2018
	American Geophysics Union Fall Meeting 2018	
COMPUTER SKILLS	<i>Languages & Software:</i> Python, Julia, MATLAB, Fortran, C <i>Operating Systems:</i> Unix/Linux, MacOS, Windows	
MEMBERSHIPS	American Meteorological Society American Geophysics Unions	
LANGUAGES	English French (Bilingual Fluency) German (2 years of courses)	
REFERENCES	Available upon request	