

**Lucas J. Sterzinger**  
Curriculum Vitae

---

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

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

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