

Andrew (Andy) A. Lambert
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Salt Lake City, Utah

Summary

Deep-dive research experience related to aerosols, combined with weather forecasting in various capacities during undergraduate and graduate studies, has built a versatile skill-set in meteorology, environmental science, air quality, and data analysis. Proficiencies in programming and big data management were also developed via the usage of ground-based aerosol and regional satellite observations.

Education

- University of Utah, Atmospheric Sciences M.S.* 2018 – Present
March 2020
- Successful thesis defense
 - Researching trends in high impact dust events in the Midwest and Western U.S. using ground based in-situ and satellite remote sensing networks
 - Current GPA: 3.86
 - Expected graduation: May 2020
- Basic Aerosol Science Course at the University of Vienna* June – July 2019
- University of Utah, Atmospheric Sciences B.S. Graduate* May 2018
- Dean's List all semesters, Cumulative GPA: 3.98
 - Graduated Summa Cum Laude
 - 4.0 in Atmospheric Sciences classes

Work Experience

- Graduate Research Assistant* Aug 2018 – Present
- Processed and analyzed over 1 TB of satellite remote sensing and ground based in-situ data from 5 separate datasets using R, revealing positive trends in dust loading in the Great Plains and Northern Rockies regions
 - Analyzed GIS data using ArcGIS and R to investigate connections between land use change, including oil and gas development and agricultural expansion, and dust loading
- Teacher's Assistant for ATMOS 5400 – The Climate System* Aug 2019 – Dec 2019
- Met weekly with students to assist with homework or understanding of lecture material and led review sessions to help students prepare prior to each exam
 - Graded and commented on 15 assignments every other week
- Research Assistant for Dr. Gannet Hallar* Jan 2017 – Aug 2018
- Worked in R, Matlab, and Igor programs to analyze aerosol scattering and concentration data in the Intermountain West, classifying observations as either dust or non-dust events
 - Used back trajectory modeling through HYSPLIT to identify a region of known oil and gas expansion as a previously undocumented source of dust
 - Instrumentation – Participated in preparation, set up, and take down for field experiments
- Chief Meteorologist at the U of U Weather Center* May 2017 – Apr 2018
- Forecasted daily for University campus
 - Forecasts were used by campus facilities and grounds management
 - Trained roughly 10 volunteer and intern forecasters
 - Wrote forecast guidance and led weather discussions daily to inform forecasters and other students/faculty interested in weather
- Lead Programmer at the U of U Weather Center* Mar 2016 – May 2017

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- Worked in Perl, JavaScript, HTML, CSS, and SQL coding languages to manage website upkeep and dissemination of forecasting data

Publications & Presentations

- “High Impact Dust Events: Trends from the Great Plains to the West Coast”* Dec 2019
- Oral Presentation at American Geophysical Union Fall Meeting
- “Climatology of Dust Events in the Western Colorado Region and Identification of Dust Source Locations”* Oct 2017
- Presented at Desert Research Institute Division of Atmospheric Sciences Science Talks Skiles, S.M., Mallia, D.V., Hallar, G., Lin, J.C., **Lambert, A.**, Petersen, R. and Clark, S., 2018. Implications of a shrinking Great Salt Lake for dust on snow deposition in the Wasatch Mountains, UT, as informed by a source to sink case study from the April 13-14th, 2017 dust event. *Environmental Research Letters*.

Extracurricular & Volunteer/Internship Experience

- Member of Citizens’ Climate Lobby* Sep 2018 – Present
- Internship at the U of U Weather Center* Jan 2016 – May 2016
- Worked in social media, broadcasting, programming, and weather forecasting aspects daily
- Weather forecasting volunteer at the U of U Weather Center* 2015 – 2016
- Served a 2-year church mission in Nebraska* May 2013 – May 2015
- Oversaw over 40 missionaries at a time in various leadership positions
 - Interacted daily with dozens of new people and participated in service efforts across the state of Nebraska
- Received Eagle Scout Award* 2011

Awards & Honors

- Global Change and Sustainability Center Travel Grant* Sep 2019
- Master’s Comprehensive Exam – Passed with Distinction* May 2019
- Senior of the Year award (University of Utah Atmospheric Sciences Department)* May 2018
- Undergraduate Research Scholar Designation* May 2018
- University of Utah Scholarships*
- Honors at Entrance 2012 – 2013, 2015 – 2018
 - CMES Alumni Scholarship 2017 – 2018
 - CMES Dean’s Scholarship 2017 – 2018
 - Kennecott Merit 2015 – 2016

References

Gannet Hallar	Courtenay Strong	Tim Jackson
Associate Professor	Associate Professor	President
Department of Atmospheric Sciences, University of Utah	Department of Atmospheric Sciences, University of Utah	Health Insurance Specialists
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