

Kathrin Alber

Department of Atmospheric and Environmental Sciences University at Albany,
State University of New York
1400 Washington Avenue, Albany, NY 12222

kalber2@albany.edu

EDUCATION

University at Albany, SUNY, Albany, NY, USA

09/2019-present

Ph.D. Student, Department of Atmospheric and Environmental Science (DAES)

Advisor: Dr. Liming Zhou

George Mason University, Fairfax, VA, USA

08/2017-08/2018

M.S. Thesis, Atmospheric, Oceanic & Earth Sciences Department (AOES)

Advisor: Dr. Kathy Pegen

University of Basel, Switzerland

01/2016-01/2019

M.S. in Geoscience, Department of Atmospheric Sciences

Advisor: Dr. Eberhard Parlow

University of Basel, Switzerland

08/2012-01/2016

B.S. in Geoscience, Department of Atmospheric Sciences

Advisor: Dr. Eberhard Parlow

RESEARCH EXPERIENCE

Graduate Research Assistant

09/2019-present

DAES, University at Albany

- Analyzing thunderstorm activity and trends over the Congo Rainforest
- Investigating changes in the timing and intensity of the diurnal cycle of convection over the Congo Rainforest
- Assessing the effects of drying trend and different modes of variability on the diurnal cycle of convection over the Congo Rainforest

Research Investigator

08/2017-08/2018

AOES, George Mason University

- Analyzed the predictability of the North Atlantic Oscillation

Research Investigator

08/2015-09/2015

Gobabeb Research and Training Centre, Namibia

- Quantified fog distribution in the Namib desert

PUBLICATIONS

Peer-reviewed:

Alber, K., Raghavendra, A., Zhou, L. et al., 2021. Analyzing intensifying thunderstorms over the Congo Basin using the Gálvez-Davison index from 1983–2018. *Clim. Dyn.* 56, 949–967 (2021).
<https://doi.org/10.1007/s00382-020-05513-x>

Alber, K., Zhou, L., and Raghavendra, A., 2021. A shift in the diurnal timing and intensity of deep convection over the Congo Basin during the past 40 years. *Atmos. Res.* 264, 0169–8095.
<https://doi.org/10.1016/j.atmosres.2021.105869>

CONFERENCE PRESENTATIONS**101st AMS Annual Meeting****2021**

Analyzing intensifying thunderstorms over the Congo Basin using the Gálvez-Davison index from 1983–2018. **(Oral)**

HONORS AND AWARDS

Master Thesis, Zeno Karl Schindler Foundation

2017

Master Thesis, Karitative Stiftung Dr. Gerber-ten Bosch

2017**INTERNSHIPS****Meteotest, Bern, Switzerland****08/2018-02/2019**

Internship weather forecasting

MeteNews, Zürich, Switzerland**10/2015-03/2016**

Internship weather forecasting

TECHNICAL SKILLS

Programming:	MATLAB, Python, GrADS, Linux shell scripting
Datasets:	ERA-Interim, ERA5, GridSat-B1, MODIS, MERRA-2, NOAA CPC, TRMM, IMERG, GLEAM
Version control:	Git, Github
Platforms:	Mac, Windows, Linux

SERVICE AND OUTREACH**DAES Climate group steering committee****2020-2021**

- Organized and led weekly departmental climate group presentations and discussions

Weather and climate classes**2018-2019**

- Taught lessons about weather, climate, and natural disasters to elementary school classes

Open lecture auditorium**2017**

- Mentor for refugees auditing classes at the University of Basel

VOLUNTEER EXPERIENCE

Thacher Climbing Coalition

- Board member
- Membership chair

2021-present

2020-present

Swiss Alpine Club

- Climbing and mountaineering guide for children and young adults

2014-2019

LANGUAGES

German - Native

English - Fluent

Spanish - Proficient

French - Conversational

Norwegian - Basic

PROFESSIONAL AFFILIATIONS

American Meteorological Association

2020-present