Kathrin Alber

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

https://kathrinalber.github.io 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 Pegion

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
- Passed Ph.D. qualification exam (Dec 2020) and Ph.D. prospectus (Nov 2021)

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

102nd AMS Annual Meeting

2022

A shift in the diurnal timing and intensity of deep convection over the Congo Basin during the past 40 years. **(Oral)**

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 Master Thesis, Karitative Stiftung Dr. Gerber-ten Bosch 2017

2017

INTERNSHIPS

Meteotest, Bern, Switzerland

08/2018-02/2019

Internship weather forecasting

- Analyzed weather patterns using different models
- Issued daily written weather forecasts for newspapers, TV channels, and websites
- Performed multiple live weather radio interviews every day
- Provided personalized weather information on the phone for individual people, helicopter operations, and mountaineers
- Taught weather, climate, and natural disaster classes for elementary school classes
- Prepared weather reports for insurance companies

MeteNews, Zürich, Switzerland

10/2015-03/2016

Internship weather forecasting

- Analyzed weather patterns using different models
- Issued daily written weather forecasts for newspapers, TV channels, and websites

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

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PROFESSIONA	١L
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Session Co-Chair: AMS 102nd annual meeting, Session 8A African Climate Variability and Change 2022

UNIVERSITY AT ALBANY

Organizer: DAES Climate group weekly meetings 2020-2021

UNIVERSITY OF BASEL

Mentor: Open lecture auditorium for refugees and asylum seekers 2017

VOLUNTEER EXPERIENCE

Adirondack Mountain Rescue

2022-present

Probationary active field member

Thacher Climbing Coalition

Board member
 Membership chair
 2021-present
 2020-present

Swiss Alpine Club 2014-2019

Climbing and mountaineering guide for children and young adults

LANGUAGES

German - Native

English - Fluent

Spanish - Proficient

French - Conversational

Norwegian - Basic

PROFESSIONAL AFFILIATIONS

American Avalanche Association

American Meteorological Association

2022-present
2020-present

OTHER CERTIFICATIONS

The American Institute for Avalanche Research and Education (AIARE)

AIARE Avalanche Rescue
 AIARE 1
 2022
 2021