Kathrin Alber

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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

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)**

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)**

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

PROFESSIONAL
Session Co-Chair: AMS 102nd annual meeting, Session 8A African Climate Variability and Change **2022**
Instructor: Lessons about weather, climate, and natural disasters for elementary school classes **2018-2019**

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

Thacher Climbing Coalition

- Board member **2021-present**
- Membership chair **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 Meteorological Association **2020-present**

OTHER CERTIFICATIONS

AIARE 1: The American Institute for Avalanche Research and Education **2021**