Julia Kukulies

Education

2018– ongoing **PhD candidate in Natural Sciences, Advisor: Prof. Deliang Chen**,
Regional Climate group, Department of Earth Sciences, University of Gothenburg, Sweden,
Project: Observing and Modeling the Atmospheric Water Cycle in the Tibetan Plateau region.

2017–2018 **M. Sc. in Atmospheric Sciences**, *Final grade: VG (Excellent)*,
Department of Earth Sciences, University of Gothenburg, Sweden,
Project: Temporal and spatial variability of convection, clouds and precipitation over the Tibetan Plateau derived from recent satellite retrievals.

2013–2016 **B. Sc. in Earth Sciences with Major in Climatology**, *Final grade: VG (Excellent)*,
Department of Earth Sciences, University of Gothenburg, Sweden,
Project: Major ion deposition in the accumulated winter snowpack in northern Sweden.

Internships and Research visits

Oct 2021–May 2022 **National Center for Atmospheric Research, Boulder, Colorado, USA**,
ASP Graduate visitor program, Host: Dr. Andreas Prein,
Project: Convection-permitting climate simulations in the Third Pole region.

Sep–Dec 2017 **School of Atmospheric Sciences, Nanjing University, China**,
Research visit in Aerosol-cloud research group, Host: Prof. Minghuai Wang,
Project: Satellite observations of convective clouds over the Tibetan Plateau.

Jun–Sep 2016 **Max Planck Institute for Meteorology, Hamburg, Germany**,
Internship in Hydrological group, Host: Dr. Tobias Stacke,
Project: Validation of a global dynamical wetland scheme in land-atmosphere coupled simulations.

Jun–Aug 2014 **Helmholtz Centre for Ocean Research, Kiel, Germany**,
Internship in Paleoclimatology and Natural Resources, Host: Dr. rer. nat. Warner Brückmann.

Awards and Grants

2022 **SciPy Financial Aid Scholarship**,
Texas, USA.

2021 **NCAR Advanced Study Program for graduate visitors**,
Colorado, USA.

2019 **Travel fund to International Conference on Regional Climate-CORDEX 2019**,
China.

2018 **Research Fund Adlerbertska Stiftelse**,
Sweden.

2018 **Sven Lindqvists forskningsstiftelse**,
Sweden.

Extracurricular activities

2018–2021 **Coordinator in GAC (Gothenburg Air and Climate Network) Board**.

2018–2021 **Executive Secretary of APECS (Association of Polar and Alpine Early Career Scientists)**.

Contributions to research community

Reviewer for the following scientific journals,
JGR Atmosphere, Journal of Climate, Journal of Applied Meteorology and Climatology, International Journal of Climatology.

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Presentations at conferences

2022 **Process-oriented evaluation of kilometer-scale simulations of a mesoscale convective system in the Sichuan basin**,
Swedish Climate Symposium, Sweden.

2022 **The Role of Mesoscale convective systems in Precipitation in the Tibetan Plateau region**,
American Meteorological Society Annual meeting, Texas, USA.

2021 **Meso-scale weather systems and their interaction in the Tibetan Plateau region**,
European Geoscience Union, Austria.

2019 **Spatial and temporal dynamics of convective precipitation cells on the Tibetan Plateau**,
International Conference on Regional Climate-CORDEX, China.

2019 **Spatial and temporal dynamics of convective precipitation cells on the Tibetan Plateau**,
European Meteorological Society, Denmark.

2019 **Temporal and Spatial variations of clouds and convection over the Tibetan Plateau derived from CloudSat satellite retrievals** ,
8th Third Pole Environment workshop, Sweden.

International research schools

Jan 2020 **ERCA: European Research School on Atmospheres**,
Grenoble, France.

Sep 2019 **Max Planck Research School on Earth System Modeling**,
Hamburg, Germany.

Mar 2019 **Arctic in a changing climate (ClimbEco course)**,
Gothenburg, Sweden.

Oct 2018 **NEGI course on E-Science tools for climate research**,
Andoya, Norway.

Aug 2018 **Helsinki summer school on Air quality in China**,
Helsinki, Finland.

Jun 2018 **ITPCAS Summer School on Climate Modeling**,
Beijing, China.

Sep 2016 **Baltic Earth summer school on Atmosphere-Ocean climate models**,
Asko, Sweden.

Skills

Computer Python (*Advanced*), Linux and Bash scripting (*Good*), NCO/CDO (*Good*), R (*Basic*), Matlab (*Basic*)

Utilities Anaconda, Git, Jupyter Notebook, Slurm

Languages German (*Mothertongue*), English (*Fluent*), Swedish (*Fluent*), French (*Good*), Spanish (*Basic*)

Publications

Kukulies, J., Chen, D. and Curio, J. (2021). The Role of Mesoscale Convective Systems in Precipitation in the Tibetan Plateau Region. Journal of Geophysical Research: Atmospheres, 126(23), e2021JD035279.

Zhang, X., Yin, Y., **Kukulies, J.**, Li, Y., Kuang, X., He, C., and Chen, J. (2021). Revisiting Lightning Activity and Parameterization Using Geostationary Satellite Observations. Remote Sensing, 13(19).

Lai, H. W., Chen, H. W., **Kukulies, J.**, Ou, T. and Chen, D. (2020). Regionalization of seasonal precipitation over the Tibetan Plateau and associated large-scale atmospheric systems. Journal of Climate, 1-45.

Kukulies, J., Chen, D. and Wang, M. (2020). Temporal and spatial variations of convection and precipitation over the Tibetan Plateau based on recent satellite observations. Part II: Precipitation climatology derived from GPM. International Journal of Climatology.

Kukulies, J., Chen, D. and Wang, M. (2019). Temporal and spatial variations of convection and precipitation over the Tibetan Plateau based on recent satellite observations. Part I: Cloud climatology derived from CloudSat and CALIPSO. International Journal of Climatology.