

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.
- 2019 **Travel fund to International Conference on Regional Climate-CORDEX 2019**,
China.
- 2020 **NCAR Advanced Study Program for graduate visitors**,
Colorado, USA.
- 2019 **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.

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 (*Mother tongue*), 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 Climatology*, 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*.