

# Lukas Brunner

*curriculum vitae*

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## Research

I am passionate about understanding changes in global and regional climate as well as their drivers. My research includes work on the evolution of atmospheric blocking and its impacts, on the analysis of multi-model ensemble projections, and on aspects of model heritage and inter-dependence. I have published several Python packages and I am enthusiastic about all aspects of open science. My work also includes teaching, supervision, project coordination, and public outreach.

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## Professional Experience

- 2018 - present **Senior scientist**, Institute for Atmospheric and Climate Science, ETH Zurich
- 2014 - 2018 **Predoctoral scientist**, Wegener Center, University of Graz, Austria
- 2017 **Visiting scientist**, Center for International Climate Research, Norway
- 2015 - 2016 **Visiting scientist**, School of Geosciences, University of Edinburgh, UK

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## Education

- 03/2018 **Dr. rer. nat. in Climate physics**, University of Graz, Austria
- 07/2014 **MSc. in Geophysics**, University of Graz, Austria
- 10/2012 **BSc. in Physics**, University of Graz, Austria

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## Selected publications

- 09/2019 **L. Brunner**, A. G. Pendergrass, F. Lehner, A. L. Merrifield, R. Lorenz, and R. Knutti: Reduced global warming from CMIP6 projections when weighting models by performance and independence. *Earth Syst. Dynam.*, <https://doi.org/10.5194/esd-11-995-2020>
- 11/2016 **L. Brunner**, G. C. Hegerl, and A. K. Steiner: Connecting atmospheric blocking to European temperature extremes in spring, *J. Climate*, <https://doi.org/10.1175/JCLI-D-16-0518.1>

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## Code

- Detect blocking <https://github.com/lukasbrunner/blocking>
- Model weighting [https://docs.esmvaltool.org/en/latest/recipes/recipe\\_climwip.html](https://docs.esmvaltool.org/en/latest/recipes/recipe_climwip.html)

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## Other

- 2019 - present **Board member (president since 2020)**, Club Alpbach Vorarlberg, Austria
- 2018 - present **Mittelbau representative**, ETH Zurich, Switzerland
- 2016 **Marietta Blau Scholarship**, Austrian Exchange Service