Daniel Steinfeld

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Education

2016 – 2019	PhD, Atmospheric Science Institute for Atmospheric and Climate Science ETH Zurich, Switzerland
2013 – 2015	Master of Science, Climate Sciences Oeschger Centre for Climate Change Research University of Bern, Switzerland
2010 – 2013	Bachelor of Science, Geography Minor in Physics University of Zurich, Switzerland

Work Experience

2021 – today	Postdoctoral Researcher, Climatology and Climate Impact Research Oeschger Centre for Climate Change Research and Institute of Geography University of Bern, Switzerland
2019 – 2021	Natural Catastrophe Risk Modeler Helvetia Versicherungen St. Gallen, Switzerland
2015 – 2016	Research Intern at Atmospheric Chemistry Lab Paul Scherrer Institute, Switzerland
2012 – 2012	Intern at Institute Ekos Brasil, Brazil
2010 – 2010	Research Intern at Snow Physics Lab Institute for Snow and Avalanche Research, Switzerland

Publications

D. Steinfeld, M. Sprenger, U. Beyerle, H. Wernli and S. Pfahl, 2021: Changes in atmospheric blocking dynamics in a warmer climate. *in preparation*

D. Steinfeld, M. Boettcher, R. Forbes and S. Pfahl, 2019: The sensitivity of atmospheric blocking to upstream latent heating - numerical experiments. *Weather and Climate Dynamics*, 1, 405-426.

D. Steinfeld and S. Pfahl, 2019: The role of latent heating in atmospheric blocking dynamics - a global climatology. *Climate Dynamics*, 53, 6159–6180.

M. Hegglli, B. Kochle, M. Matzl, B.R. Pinzer, F. Riche, S. Steiner, **D. Steinfeld** and M. Schneebeli, 2017: Measuring snow in 3-D using X-ray tomography: assessment of visualization techniques. *Annals of Glaciology*, 52, 231–236.

Teaching Experience

Fall 2016, 2017	Teaching Assistant, ETH Zurich Dynamics of Large-scale Atmospheric Flow (Master-level)
Spring 2017, 2018	Teaching Assistant, ETH Zurich Inter-annual Phenomena and Their Prediction (Master-level)
Spring 2016, 2017	Teaching Assistant, ETH Zurich Integriertes Praktikum Umweltbeobachtungen (Bachelor-level)

Supervision

01/2018 – 07/2018	Egli, M.: A case study on the impact of cloud diabatic processes in atmopsheric blocking, Bachelor thesis, ETH Zurich, supervised together with Dr. M. Böttcher.
01/2018 – 07/2018	Müller, M.: Untersuchung einer extremen arktischen Wärmeperiode im Dezember 1984, Bachelor thesis, ETH Zurich, supervised together with Dr. H. Binder (Ecole Normale Supérieure de Paris, Paris) and Dr. M. Böttcher.
01/2017 – 06/2017	Suter, P.: Charakeristika von blockierenden Hochdrucksystemen whrend verschiedenen Wetterregimen im Atlantisch-Europäischen Raum, Bachelor thesis, ETH Zurich, supervised together with Dr. C. M. Grams (KIT).
09/2016 – 04/2017	Minder, N.: Investigation of cyclones in the subtropical Southern Hemisphere summer, Master thesis, ETH Zurich, supervised together with Dr. M. Böttcher.
01/2016 – 06/2016	Kessler, M.: Der Einfluss von blockierenden Hochdrucksystemen auf starke Windstürme in Europa, Bachelor thesis, ETH Zurich, supervised together with Prof. Dr. S. Pfahl (FU Berlin).

Talks (select)

02/2021	Steinfeld D.: The role of latent heating in atmospheric blocking (invited talk), Seminar, ECMWF, England
06/2019	Steinfeld D.: Atmospheric blocking: climatology and dynamics (invited talk), Special Seminar, Department of Earth and Planetary Sciences, Weizmann Institute of Science, Israel

Extracurricular Activities

Summer 2016, 2018	Presentation “Was ist Wetter?”, Girls Day Pro Juventute Ferienplausch, ETH Zurich
Fall 2018	Presentation “Wasser in der Atmosphäre”, Klimatologie (Bachelor Course), ZHAW Wädenswil
Winter 2015	Ski instructor for children with visual impairments, Sfs Zürich, Switzerland