

Lukas Brunner

curriculum vitae

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Personal Data

Name Lukas Brunner
Date of Birth January 9, 1990
Place of Birth Graz, Austria
Nationality Austrian

Research

My PhD in climate sciences focuses on the investigation of stationary high pressure systems (atmospheric blockings) and their impacts on surface temperature extremes. It is funded by the Austrian Science Fund (FWF) as part of the interdisciplinary doctoral college DK Climate Change at the University of Graz.

Education

10/2014 - **Doctorate in Natural Sciences**
present Wegener Center for Climate and Global Change, University of Graz, Graz, Austria
Supervisor Ass.-Prof. Dr. Andrea K. Steiner

07/2014 **MSc. in Geophysics (pass with distinction)**
Wegener Center for Climate and Global Change, University of Graz, Graz, Austria
Thesis Stratospheric ozone and temperature evolution over the past decades
Supervisor Ass.-Prof. Dr. Andrea K. Steiner

10/2012 - **Master in Geophysics** (with focus on Environmental Physics and Meteorology)
07/2014 University of Graz, Graz, Austria

10/2009 - **Bachelor in Physics**
10/2012 University of Graz, Graz, Austria

2008 - 2009 Community service (9 months)
06/2008 School leaving examination

Publications

Peer-reviewed

- 01/2017 **Brunner, L.**, G. C. Hegerl, and A. K. Steiner (2017). “Connecting atmospheric blocking to European temperature extremes in spring”. *J. Climate* 30.2, pp. 585–594. DOI: 10.1175/JCLI-D-16-0518.1
- 04/2016 **Brunner, L.**, A. K. Steiner, B. Scherllin-Pirscher, and M. W. Jury (2016). “Exploring atmospheric blocking with GPS radio occultation observations”. *Atmos. Chem. Phys.* 16.7, pp. 4593–4604. DOI: 10.5194/acp-16-4593-2016

Other

- 06/2014 **Brunner, L.** (2014). “Stratospheric ozone and temperature evolution over the past decades”. Master’s Thesis. Wegener Center for Climate and Global Change, University of Graz. URL: www.wegcenter.at/en/wcv

Conferences and Workshops (selection)

- 04/2017 **Brunner, L.** and A. K. Steiner. “Observing atmospheric blocking with GPS radio occultation – one decade of measurements”. Oral presentation. EGU General Assembly 2017, Vienna, Austria, 27/04/2017
- 04/2017 **Brunner, L.**, J. Sillmann, and A. K. Steiner. “Investigating the impact of atmospheric blocking on temperature extremes across Europe using an objective index”. Poster presentation. EGU General Assembly 2017, Vienna, Austria, 24/04/2017
- 12/2016 **Brunner, L.**, G. Hegerl, A. K. Steiner. “Linking atmospheric blocking in spring to European temperature extremes”. Oral presentation. AGU Fall Meeting, San Francisco, USA, 12/12/2106
- 09/2016 **Brunner, L.**, C. Unterberger, V. Hess. “Connecting atmospheric blocking to economic damages – a preliminary case study”. Oral presentation. Summer School on Coping with Climate Change, Reinschkogel, Austria, 23/09/2016.
- 04/2016 **Brunner, L.**, A. K. Steiner, G. C. Hegerl, B. Scherllin-Pirscher, M. W. Jury. “Blocking detection and analysis with GPS radio occultation observations”. Oral presentation. SPARC Workshop on Atmospheric Blocking, Reading, United Kingdom, 06/04/2016
- 08/2015 **Brunner, L.**, A. K. Steiner, B. Scherllin-Pirscher, and M. W. Jury. “Blocking detection with observations from radio occultation: A case study”. Poster presentation. Swiss Climate Summer School, Ascona, Switzerland, 24/08/2015.

Awards and scholarships

- 12/2016 **Marietta Blau Scholarship**
Austrian Exchange Service (OeAD) and Austrian Federal Ministry of Science, Research and Economy (BMWFW), Vienna, Austria
- 02/2017 - **Member of PRO SCIENTIA**
present PRO SCIENTIA Österreichisches Studienförderungswerk, Vienna, Austria
- 08/2016 **Scholarship for participation at the European Forum Alpbach 2016**
Club Alpbach Vorarlberg, Egg, Austria
- 2009 - 2013 **Performance scholarship of the faculty of natural sciences**
University of Graz, Graz, Austria (3 times)

International experience

- 04/2017 - **Research stay at the Center for International Climate and Environmental**
09/2017 **Research - Oslo (CICERO)**
Oslo, Norway; co-financed by a Marietta Blau scholarship
- Supervisor Dr. Jana Sillmann
- 10/2015 - **Research stay at the University of Edinburgh**
03/2016 School of Geosciences, University of Edinburgh, Edinburgh, United Kingdom
- Supervisor Prof. Dr. Gabriele C. Hegerl

Experience

Teaching experience

- Winter term **Exercises in Methods of Modeling and Simulation (Exercises, 4 ECTS)**
2016/2017 Geophysics master curriculum, University of Graz, Graz, Austria
- Winter term **Introduction to Meteorology and Climate Physics (Exercises, 1.5 ECTS)**
2016/2017 Physics bachelor curriculum, University of Graz, Graz, Austria
- Summer term **Selected Topics in Atmosphere and Climate Physics (Seminar, 4 ECTS)**
2016 Geophysics master curriculum, University of Graz, Graz, Austria
- 2011 - 2014 **Electrodynamics and Optics Laboratory and Mechanics and Thermodynamics Laboratory (Student assistant, 5 times)**
University of Graz, Graz, Austria

Internships

- 06/2014 **Internship at the Department for Air Quality**
Institute for Environment, Bregenz, Austria

Voluntary Service and committee work

- 01/2017 - **Student representative at the Doctoral Academy Internal Advisory Board**
present Doctoral Academy Graz, University of Graz, Graz, Austria
- 12/2016 - **Volunteer at Caritas Graz**
present Caritas Graz, Graz, Austria
- 06/2016 - **Volunteer at the University of Graz historical meteorological station**
present University of Graz historical meteorological station, Graz, Austria
- 10/2016 - **Student speaker DK Climate Change**
03/2017 DK Climate Change, University of Graz, Graz, Austria
- 10/2012 - **Student representative for physics**
10/2014 Austrian National Union of Students in Graz/ÖH Graz, Graz, Austria

Interests and Skills

Language Skills

- German mother tongue
English fluent (TOEFL iBT: 107/120)

IT-related Skills

- Op. Systems Ubuntu Linux, Microsoft Windows
Coding Advanced: Python, Bash; Basic: C++, Mathematica, R
Software L^AT_EX, Git, SVN, Inkscape, Photoshop, Gimp, Microsoft Office, LibreOffice

Hobbies

- since 09/2001 Karate; holder of the 2. Dan since 03/2012; exercise instructor since 06/2007