

CURRICULUM VITAE

Dr. Jana Sillmann

1 Personal

Born January 02, 1978 in Bad Salzungen, Germany.

German Citizen.

Married, 2 children.

Contact: jana.sillmann@geo.uio.no

Website: <http://climate.uvic.ca/people/jsillmann/>

2 Academic Credentials

2009 **Ph.D.**, University of Hamburg, Max-Planck-Institute for Meteorology, International Research School on Earth System Modelling, Hamburg, Germany
Extreme climate events and Euro-Atlantic atmospheric blocking in present and future climate model simulations

2003 **M.Sc.**, Geo-ecology, Technical University "Bergakademie" Freiberg, Freiberg, Germany
Regional climate modelling - Weather classification on the basis of a global climate model

2000/2001 Graduate Studies, State University of New York (SUNY) at Stony Brook, New York, USA

3 Employment Record

Feb. 2014 **Senior Research Fellow**, CICERO, Oslo, Norway

2013 - current **Researcher**, University of Oslo, Department of Geosciences, Oslo, Norway

2013 - current Associated **Research Scientist**, Institute for Advanced Sustainability Studies (IASS) e.V., Potsdam, Germany

2011 – 2013 **Postdoctoral Researcher**, Canadian Centre for Climate Modelling and Analysis (CCCma) and University of Victoria, Climate Modelling Group, Victoria, BC, Canada

2011 **Sessional Lecturer**, Graduate/Undergrad Course EOS433/550 "The Climate System" at the School of Earth and Ocean Sciences, University of Victoria, Victoria, BC, Canada

2010 - 2011 **Research Associate**, University of Victoria Climate Modelling Group, Victoria, BC, Canada

2009 - 2010 **Postdoctoral Researcher**, Canadian Centre for Climate Modelling and Analysis, Victoria, BC, Canada

2009 **Research Scientist**, Max Planck Institute for Meteorology, Hamburg, Germany, Atmosphere in the Earth System, Global Climate Modelling Group

4 Awards and Grants

- 2011 - 2013 **Postdoctoral Fellowship** (Si 1659/1-1), German Research Foundation
- 2012 **Travel Grant for the Global Sustainability Summer School**, Potsdam, Germany, Robert-Bosch-Stiftung
- 2012 **Travel Grant for the CMIP5 Model Analysis Workshop**, Honolulu, HI, USA, World Climate Research Programme (WCRP)
- 2011 **Award for outstanding poster presentation**, Denver, CO, USA, WCRP
- 2011 **Travel Grant for the WCRP Open Science Conference**, Denver, CO, USA, WCRP
- 2004 - 2009 **Ph.D. Scholarship**, International Max Planck Research School for Earth System Modelling and the Max Planck Society
- 2005 **Young Researcher Scholarship**, Marie Curie Scholarship for STATCAMP - European Young Statistician Training Camp, Oslo, Norway
- 2004 **Young Researcher Scholarship**, Marie Curie Scholarship for the European Statistician Seminar (EMS Summer School on Statistics of Spatio-Temporal Systems), Castle Höhenried, Germany

5 Scientific Contributions

5.1 Peer-reviewed Publications

- Sillmann, J., V. V. Kharin, F. W. Zwiers, X. Zhang, D. Bronaugh, and M. G. Donat, 2013a:** Evaluating model-simulated variability in temperature extremes using modified percentile indices. *Int. J. Climatol.* doi: 10.1002/joc.3899.
- Sillmann, J., L. Pozolli, E. Vignati, H. Feichter, S. Kloster, 2013b:** Aerosol effect on climate extremes in Europe under different future scenarios, *Geophysical Research Letters*, 40, 2290-2295, doi: 10.1002/50459.
- Sillmann, J., V. V. Kharin, X. Zhang, F. W. Zwiers and D. Bronaugh, 2013c:** Climate extremes indices in the CMIP5 multi-model ensemble. Part 1: Model evaluation in the present climate. *Journal of Geophysical Research*, 118, 1716-1733, doi: 10.1002/jgrd.50203.
Selected as AGU Research Spotlight
- Sillmann, J., V. V. Kharin, F. W. Zwiers, X. Zhang and D. Bronaugh, 2013d:** Climate extremes indices in the CMIP5 multi-model ensemble. Part 2: Future climate projections. *Journal of Geophysical Research*, 118, 2473-2493, doi: 10.1002/jgrd.50188.
- Sillmann, J., M. Kallache, M. Croci-Maspoli and R.W. Katz, 2011:** Extreme cold winter temperatures in Europe under the influence of atmospheric blocking conditions. *Journal of Climate*, 24, 5899–5913.
- Sillmann, J. and M. Croci-Maspoli, 2009:** Present and future atmospheric blocking and its impact on European mean and extreme climate. *Geophysical Research Letters*, 36, L10702.
- Sillmann, J. and E. Roeckner, 2008:** Indices for extreme events in projections of anthropogenic climate change. *Climatic Change*, 86, 83-104.

5.2 Book Contributions

Flato et al. (with contributing author J. **Sillmann**), 2013: Evaluation of Climate Models. In: The Physical Science Basis. Contribution of Working Group I to the *Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC AR5)*

Collins et al. (with contributing author J. **Sillmann**), 2013: Long-term Climate Change: Projections, Commitments and Irreversibility. In: The Physical Science Basis. Contribution of Working Group I to the *Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC AR5)*

5.3 Reports

Roeckner, E., G. Brasseur, M. Giorgetta, D. Jacob, J. Jungclaus, C. Reick and J. **Sillmann**, 2006: Climate projections of the 21st century, MPI-Brochure, MPI for Meteorology, Hamburg, October 2006.

Sillmann, J., 2009: Extreme climate events and Euro-Atlantic atmospheric blocking in present and future climate model simulations. Max Planck Institute for Meteorology, Hamburg. Reports on Earth System Science, 63, 89 pp.

5.4 Submitted Articles

Curry, C., J. **Sillmann**, D. Bronaugh and co-authors, 2014: A multi-model examination of climate extremes in an idealized geoengineering experiment, *Journal of Geophysical Research, Special Issue*, revised.

Donat, M., J. **Sillmann**, S. Wild, L. V. Alexander, T. Lippmann, F. W. Zwiers, 2014: Consistency of temperature and precipitation extremes across various global gridded in situ and reanalysis data sets, *Journal of Climate*, revised.

Thorarinsdottir, T., J. **Sillmann**, and R. Benestad, 2014: Climatologists and Statisticians Discuss Statistics in Climate Research, *Eos*, submitted.

5.5 Conferences, Workshops, Seminars

2013 AGU Fall Meeting, San Francisco, CA, USA (*invited speaker*)

2013 Stats+Climate Workshop, Oslo, Norway

2013 Davos Atmosphere and Cryosphere Assembly DACA-13, Davos, Switzerland (*invited speaker*)

2012 AGU Fall meeting, San Francisco, CA, USA

2012 3rd International Conference on Earth System Modelling, MPI for Meteorology, Hamburg, Germany

2012 Global Sustainability Summer School, Potsdam, Germany

2012 World Climate Research Programme Workshop on Coupled Model Intercomparison Project Phase 5 (CMIP5) Model Analysis, Honolulu, HI, USA

2011 American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, USA

2011 World Climate Research Programme Open Science Conference, Denver, CO, USA

2011 Canadian Meteorological and Oceanographic Society Conference, Victoria, BC, Canada

2011 4th Session of the Expert Team on Climate Change Detection and Indices, Workshop, Victoria, BC

- 2010 Interdisciplinary Workshop (10w5016) on “Extreme events in climate and weather”, Banff International Research Station, Banff, AB, Canada
- 2010 11th International Meeting on Statistical Climatology, Edinburgh, Scotland, UK
- 2009 SAMA (Statistiques pour l'Analyse, la Modélisation et l'Assimilation) Group Seminar, Institute Pierre Simon Laplace, Paris, France
- 2008 European Geophysical Union General Assembly 2008, Vienna, Austria
- 2008 “Statistical analysis of extremes in geophysical science” Seminar, National Center for Atmospheric Research, Boulder, CO, USA
- 2007 International Association of Meteorology and Atmospheric Science Conference, Perugia, Italy
- 2006 7th Conference of the International EnvironMetrics Society, Kalmar, Sweden
- 2005 International Association of Meteorology and Atmospheric Science Conference, Beijing, China
- 2005 European Geophysical Union General Assembly 2005, Vienna, Austria
- 2005 STATCAMP - European Young Statistician Training Camp, Oslo, Norway

5.6 Academic Supervision

- 2013 – current Noelia Otero, Institute for Advanced Sustainability Studies (IASS) e.V., Potsdam, Germany, Ph.D. project “Effect of low-wind circulation types on air pollution conditions in present and future climate ”
- 2011 – 2012 Nadine Gissibl, University of Heidelberg, Germany, M.Sc. Thesis: "Proper divergence functions for comparing and combining climate model outputs for extreme temperature indices"
- 2011 Albert David, Canadian Centre for Climate Modelling and Analysis (CCCma), Victoria, BC, Canada, co-op student

6 Interdisciplinary Contributions

- 2006 Workshop on “Global climate change”, Summer-Academy of the 'Green Youth' organized by the German Green Party - Youth Group (Alliance '90/The Greens), Wasserkuppe, Germany
- 2006 Workshop on “Global change and its impacts”, A cooperative effort between schools and research institutions to educate teachers about climate change research, Bad Malente, Germany
- 2005 Workshop on “Climate scenarios for the future and their use for impact studies”, Information for policy makers, stakeholders, and the public about the most recent climate model projections for the IPCC AR4, Max Planck Institute for Meteorology, Hamburg, Germany

7 Other Work Experience

- 2004 Internship at *Fundação Estadual do Meio Ambiente*, Federal Environmental Agency, Belo Horizonte, Minas Gerais, Brazil