

Curriculum Vitae

Kay Helfricht, PhD

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Date of birth: 05 September 1981

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Research interests

Mountain meteorology and hydrology
snow cover distribution in mountain catchments
glacier mass balance
remote sensing of the cryosphere
applied geophysics

Academic career

Since October 2014	PostDoc at the Institute for Interdisciplinary Mountain Research (IGF) of the Austrian Academy of Sciences (ÖAW), Innsbruck, Austria; principal investigator of glaciological and meteorological projects
May 2014 – September 2014	Junior researcher at the Institute for Interdisciplinary Mountain Research (IGF) of the Austrian Academy of Sciences (ÖAW), Innsbruck, Austria; glaciological and hydrological studies
October 2010 – September 2014	PhD student at the Institute of Meteorology and Geophysics, University of Innsbruck, Austria; Topic: Spatial and temporal variation of water storage in snow and ice at alpine catchments from airborne laser scan measurements. PhD thesis: “Analysis of the spatial and temporal variation of seasonal snow accumulation in Alpine catchments using airborne laser scanning - Basic research for the adaptation of spatially distributed hydrological models to mountain regions” [download]
February 2012 – March 2012	University course AG 325 Arctic Glaciology, University Centre in Svalbard UNIS, Longyearbyen
July 2010 – April 2014	Junior researcher at the alpS - Centre for Climate Change Adaptation, Innsbruck, Austria; Hydrology of glacierized catchments
December 2009 – June 2010	Research assistant in the Ice and Climate research group of the Institute of Meteorology and Geophysics, University of Innsbruck, Austria: data analyses and direct measurements of glacier mass balance
October 2004 – December 2009	Studies of Meteorology and Geophysics at the Institute of Meteorology and Geophysics, University of Innsbruck, Austria; Area of specialisation: glaciology and mountain hydrology. Diploma thesis: „Veränderungen des Massenhaushaltes am Hallstätter Gletscher seit 1856“ [download]

Projects

- April 2017 - ongoing *GlacierRocks - Glacier-Headwall Interaction and its Influence on Rockfall Activity*. Project partner, PI Georesearch Forschungsgesellschaft, ÖAW Earth System Science Call 2016
- June 2010 – ongoing *Glacier mass balance monitoring* on Taschachferner, funded by the Tiroler Wasserkraft AG; *Glacier mass balance monitoring* on Hallstätter Glacier, funded by the federal state government of Upper Austria
- October 2015 – ongoing *pluSnow - Using snow depth data to minimize the error in winter precipitation measurements*. Principal investigator, Dr. Gottfried and Dr. Vera Weiss Science Foundation, Austrian Science Fund (FWF) P 28099-N34
- March 2015 – December 2018 *FUTURELAKES - Formation and future evolution of glacier lakes in Austria*. Project partner, PI University of Salzburg, ÖAW Earth System Sciences ESS
- Mai 2014 – December 2014 *Ice and Water in Tyrol. Climate change impacts*. Project partner, PI University of Innsbruck, funded by the Autonomous Province of Bolzano - South Tyrol;
- July 2013 – March 2014 *StartClim2013.C - Abflussszenarien im Einzugsgebiet der Öztaler Ache unter Berücksichtigung von zukünftigen Veränderungen der Kryosphäre*. Project lead, alpS – Centre for Climate Change Adaptation
- July 2010 – April 2014 *H03 MUSICALS A - Multiscale Snow – Ice Melt Discharge Simulations for Alpine Reservoirs*. Junior Researcher, alpS – Centre for Climate Change Adaptation, FFG Comet
- August 2006 – June 2010 *Glacier mass balance monitoring* on Hallstätter Glacier, Institute of Meteorology and Geophysics, University of Innsbruck

Awards and Academia

Dr. Gottfried and Dr. Vera Weiss Prize 2015	First winner of the prize for meteorology of the Dr. Gottfried and Dr. Vera Weiss science foundation 2015 Awarding of the submitted project "pluSnow - Using snow depth data to minimize the error in winter precipitation measurements" on proposal of the committee of the Austrian Science Fund FWF
Werner-Kresser-Prize 2014	Award of the Austrian Society of Hydrology (ÖGH) for excellent research in hydrology with focus on water management and water supply.
Reviewer for	Advances in Geoscience Advances in Water Research Frontiers Geografiska Annaler: Series A, Physical Geography Hydrology and Earth System Sciences Hydrological Processes Water Resources Research The Cryosphere Sensors, Water
Member of	European Geoscience Union (EGU) International Glaciological Society (IGS)