Johannes Landmann | PhD student

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Excerpt of Curriculum Vitae

Education

University of Bonn — **Bonn, Germany**
BSc Geography (+Meteorology), Grade 1.4 — *2010–2013*

University of Innsbruck — **Innsbruck, Austria**
MSc Geography (+Atmospheric Sciences), Grade 1.3 — *2013–2016*

ETH Zurich — **Zurich, Switzerland**
PhD Glaciology — *2017–now*

PhD thesis

title: *The value of data assimilation and remote sensing for glacier mass balance modeling*

supervisor: Prof. Dr. Daniel Farinotti, *ETH Zurich & WSL Birmensdorf*, *daniel.farinotti@ethz.ch*

Requested Skills (MSc/PhD level courses)

Python

Geoscientific Analyses in Python: *Martin Rutzinger; Innsbruck*

Advanced Scientific Python: Nichola Chiapolini; Zurich

Open Source Tools for Automated Processing of Geoinformation in Python: Martin Rutzinger

CRAMPON: my PhD model is in Python (everything written myself): Zurich

Linux

EDP for Meteorologists: *Thomas Burkhardt; Bonn*

Intership at German Meteorological Service: *Andreas Walter; Offenbach*

Daily work at my desk: ETH server structure is UNIX-based: Zurich

The general computational aspects of a climate/weather model

Mathematical Methods in Physics: *Gebhard Gruebl; Innsbruck*

Numerical Methods for Atmospheric Scientists: *Mechthild Thalhammer; Innsbruck*

Glaciological Modelling: *Tobias Sauter; Innsbruck*

Data Assimilation Training Course: *Amos Lawless, Reading*

Reference to paper/thesis/dissertation/project

You can refer to my my PhD project, which is called "CRAMPON" (Cryospheric Monitoring and Prediction Online). A web site and a paper related on the topic are soon online.

Other Skills by courses

Glaciology

Physical Glaciology: *Georg Kaser; Innsbruck*
Climate Change in High Mountain Areas: Ulrich Strasser; Innsbruck
Literature Seminar in Glaciology: Andreas Bauder; Zurich

Mathematics

Mathematics for Geoscientists: *Thorsten Woermann; Bonn*
Mathematical Methods in Physics: *Gebhard Gruebl; Innsbruck*
Numerical Methods for Atmospheric Scientists: *Mechthild Thalhammer; Innsbruck*

Physics

Physics for Natural Scientists: *Ian Brock; Bonn*
Physics Lab Course: *Ian Brock; Bonn*
Physical Glaciology: *Georg Kaser; Innsbruck, see also above*
Physical Climatology: Ben Marzeion; Innsbruck

Programming

Data Analytics with R: *Christoph Mitterer*

Academic Positions

University of Innsbruck

Glacier runoff analyses in high mountain catchments: *Michael Kuhn*
Solid precipitation trends in Alpine areas: *Georg Kaser*
Linking glacier inventories/Automated processing of geoscientific data: Fabien Maussion

WGMS Zurich

Project Glaciers_CCI: Automated ingestion of mass balance and glacier thickness data into FoG and GlaThiDa; Developing a concept for handling data long-term storage at WGMS: *Michael Zemp*