

Beer Janosch

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Personal Profile

As an Earth System scientist and glaciologist, I specialised in the numerical modelling of Alpine glaciers with a particular focus on the glacier thermal regime. Above my scientific pursuits, I have a strong passion for Science Journalism. My goal is to make complex scientific topics more accessible to a wider audience. Given the increasing skepticism towards our field and the pressing environmental challenges the world faces, I strongly believe that scientists have a responsibility to effectively communicate beyond academia.

Education

ETH Zurich

Zurich, Switzerland

PhD in Glaciology

April 2024 - to date

- PhD program as part of the THERMAP project. The primary goal of the doctorate is to enhance our ability to identify polythermal glaciers and understand their thermal transitions over time. This is achieved through a combination of numerical modeling and an extensive multi-year field survey in the Swiss Alps.
- **Content:** Numerical Modelling (Python, Julia, IDL), Glaciological Fieldwork in high alpine terrain (Ground penetrating radar, steam drilling)

University of Zurich

Zurich, Switzerland

MSc in Earth System Science

Sept 2021 - March 2024

- **Minor:** Atmosphere and Climate Sciences (ETH Zurich)
- **Content:** Earth System Modelling, Numerical Methods in Environmental Physics, Modelling of the Cryosphere, Climate Systems, Palaeoclimatology, Weather Systems, Math & Physics for Natural Sciences.

University Centre of Svalbard

Longyearbyen, Norway

Bachelor level courses in Arctig Geology

Aug 2018 - Dec 2018

- **Content:** Arctic Physical Geographical Field Methods, Physical Geography of Svalbard.

University of Vienna

Vienna, Austria

BSc in Geography

Sept 2017 - June 2020

- Elected member of the student council
- Specialised in Physical Geography
- **Content:** Fundamentals in Physical Geography (Soil, Earth, Geomorphology), Human Geography, GIS & Remote Sensing, Cartography.

Udacity

Digital course

Nanodegree

Feb 2021 - July 2021

- Online degree, providing an introduction to fundamental programming skills.
- **Content:** Languages (Python, HTML, JavaScript, CSS), Command line interface basics, Code debugging, Object-oriented Python, Devtools, Flexbox.

University of Hagen

Hagen, Germany

BSc in Psychology

Sept 2016 - Dec 2019

- **Content:** Statistics, Biological Psychology & General Psychology, Social Psychology, Development Psychology, Work & Organisational Psychology, Education Psychology.

Österreichischer Touristenklub

Vienna, Austria

Sport Climbing Instructor

2017

- License to teach in-, & outdoor climbing courses.

Altes Gymnasium Bremen

Bremen, Germany

General matriculation standard

2013

- Final grade: 2.0
- Specialised in English and German language.

Work Experience

ETH Zurich

Field Assistant

- Field campaign by the Exploration and Environmental Geophysics group (ETHZ).

Zurich, Switzerland

June 2022 - Aug 2022

Akademischer Sportverein Zürich, Gaswerk Kletterzentrum, Alpenverein Edelweiss, Kletterhalle Marswiese

Climbing Instructor

- Sport Climbing & Boulder courses for all age groups.

Zurich, Switzerland & Vienna, Austria

Aug 2017 - present

Skills

Programming Python (Pandas, NumPy, etc.), Julia (Makie, Plots, DifferentialEquations, StatsBase, etc.).

Miscellaneous Shell (Bash/Zsh), \LaTeX (Overleaf/R Markdown), Microsoft Office, Git.

Soft Skills Empathetic, Teamwork, Problem-solving, Sportive.

Publications

CONFERENCE PROCEEDINGS

Glacier cooling in a warming world. Borehole and radar data across the Swiss Alps.

Janosch Beer, Mylène Jacquemart, Ilaria Santin, Leo Hösli, Raphael Moser, Alexandra Esch, Matthias Huss, Saskia Gindraux, Daniel Farinotti

Swiss Geoscience Meeting, 2024, Basel, Switzerland

Determining the englacial temperature evolution of very small glaciers in the Swiss Alps: An enthalpy-based modelling approach.

Janosch Beer, Mylène Jacquemart, Ivan Utkin, Matthias Huss, Andreas Vieli, Daniel Farinotti

EGU General Assembly, 2024, Vienna, Austria

Interests

Numerical modelling Englacial temperature evolution of Alpine glaciers, development of a new enthalpy-based model (IceT).

Programming I use higher-order programming languages as Python or Julia to tackle numerical problems in glaciology.

Music I am a passionate drummer and guitarist. Please have a look at my former band Wolfabout.

Climbing As a rock climber, I could gather climbing experience around the world (Spain, Austria, Croatia, France, Switzerland).

Languages

English Professional proficiency

Slovak Basic proficiency

German Native proficiency