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*Glaciology PostDoc student with scientific research, teaching & outreach expertise.***Academic History****PostDoc** **PHAST**October
2024
Faculty of Geosciences, LMU, Munchen, Germany**PostDoc** **TIPACCs -Tipping Points in the Antarctic Climate System**July 2023-
September
2024
Faculty of Geography and Environmental Sciences, Northumbria University, Newcastle
Upon Tyne, United Kingdom**PhD** **Antarctic Ice shelf crevasses, damage and deformation – A numerical
modelling study**2019-23
Faculty of Geography and Environmental Sciences, Northumbria University, Newcastle
Upon Tyne, United Kingdom**MSc** **Glaciology and Polar Environments**2016-18
Stockholm University (Sweden) & The University Centre in Svalbard, UNIS (Norway).
▶ *Thesis: Assessment of the influence of structural features on rift propagation in
the Larsen C Ice Shelf, prior its calving event*"; Supervisors: Christopher Borstad
(UNIS), Arjen Stroeven (Stockholm University)
▶ *Visiting student in UNIS following the courses of Glaciology, Marine Cryosphere
and its Cenozoic History, Snow and Avalanche dynamics***BSc** **Earth Science**2012-15
Università degli studi di Firenze (Italy) & University of Iceland (Reykjavik, Iceland)
▶ Erasmus programme (2014-2015): University of Iceland
▶ *Thesis: Historical Evolution of the Margin front of Glaciers Upsala,-
Breidamerkurjokull and Miage,*" Supervisors: Massimo Frezzotti (ENEA) and
Filippo Catani (University of Florence).**Work Experience**2018 **Project Owner (UNIS)**

- ▶ Research project "Investigation of current surge dynamics of Tunabreen" RIS-10913
- ▶ Scanning of the surging glacier of Tunabreen to document the evolution of the surge: surface lowering, crevasse formation and development.
- ▶ Production of a Digital Elevation Model (DEM), collection and analysis from two time-lapse cameras.

2016 **Field Assistant – GEUS (Denmark and Greenland)**3-week **field** research (Glaciobasis project)

- ▶ Monitoring Olsen Ice Cap; Performing mass balance measurements, GPR and Snowpit analysis; Set up of a weather station.
- ▶ Analysis of geo-radar data of campaigns 2015 and 2016 with REFLEX software.
- ▶ Shooting Training and crevasse rescue.

2015 **Field Assistant – University of Iceland**

- ▶ Fieldwork at Solheimajokull – glacial geology mapping

Scholarships and Grants

- 2018 *Arctic Field Grant, 2018, The University Centre in Svalbard*
 2014-15 *Erasmus Programme – European Union*

Qualifications & Skills

- Practical Skills *Avalanche / Crevasse Rescue – UNIS, Svalbard (2018)*
Team leader ski touring – UNIS, Svalbard (2018)
Certificate of Rifle test – GEUS, Copenaghen, Denmark (2016)
- Computing *High Performance Computing, MATLAB, Bash, Linux,*
- Other *QGIS, ARCGIS, Excel, Power point*
- Languages *International English Language Testing System (IELTS) – C1 (2016)*
Swedish – A1 (2016)
Diplôme d'études en langue française (DELFF) – B2 (2010)

Peer Reviewed Articles

- 2023 **Gerli, C.,** Rosier, S., & Gudmundsson, G. H. A modelling framework to calibrate the value of "n" in Glen's flow law; – In preparation
- 2023 **Gerli, C.,** Rosier, S., Gudmundsson, G. H. & Sun S. Weak relationship between remotely detected crevasses and inferred ice rheological parameters on Antarctic ice shelves; – Submitted to The Cryosphere
- 2023 **Gerli, C.,** Rosier, S., & Gudmundsson, G. H. (2023). Activation of existing surface crevasses has limited impact on grounding line flux of Antarctic ice streams. *Geophysical Research Letters*, 50(6), e2022GL101687.
<https://doi.org/10.1029/2022GL101687>

Conferences and Workshops

- 2023 **Damage Workshop** –Talk: Understanding the interplay of crevasses and damage with ice dynamics – Slayley Hall, Newcastle Upon Tyne
- 2022 **IGS British Branch** – Poster Session: Impact of ice shelf crevasses on Grounding line flux – Edinburgh
- 2022 **EGU** – Talk: Impact of ice shelf crevasses on Grounding line flux – Vienna