



Alice Furlotti

Post Degree Researcher -
Ice Sheet and Earth System
Modelling

CMCC Foundation - Viale
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alice-furlotti-glaciers

About me

I am a young Post Degree scientist with a passion for glaciology. Fascinated by cryospheric dynamics, I am driven by a deep curiosity about their evolution during Earth's history and their sensitivity to climate change. I am eager to contribute to our understanding of Earth's natural systems and explore ways to address the challenges posed by their dynamic nature.

Areas of specialisation

Glaciology • Ice-sheet modelling • Ice dynamics • Earth System modelling • Quaternary sedimentology • Paleoenvironmental reconstruction

Summary

I collaborate with CMCC Foundation in implementing the **land ice component** within the Earth System model CMCC-CM. I completed my Master's degree at the Department of Physical Geography, Stockholm University, in June 2024, specialising in "Polar Landscapes and Quaternary Climate". Ice dynamics in Polar regions and the **relationship between cryosphere, landscape and climate** constitute the main focus of my recent education. My previous scientific background is **highly interdisciplinary** and encompasses the fields of physical geography, geology, physics, biology, and environmental science. During my Master's years, I gained first-hand **field experience** in Arctic, sub-Arctic and mountainous environments, such as the Svalbard Archipelago, Northern Scandinavia and the Brenta Dolomites. Thanks to a collaboration with Fondazione Golinelli, I developed relevant skills in **Science Communication**.

Experience

- 2/2025-present **Post Degree Researcher in Ice Sheet Modelling** CMCC Foundation
Post-degree collaboration with CMCC Foundation (Euro-Mediterranean Center on Climate Change) aimed at implementing the land ice component in the comprehensive Earth System model CMCC-CM.
- 2024-present **Science communicator** Fondazione Golinelli
Lead Tutor for STEM Educational Activities (Ages 0-13).
- 6-9/2021 **Intern and assistant to fieldwork activities** Adamello Brenta Nature Park
Internship at the Scientific Research Office of Adamello Brenta Nature Park conducted within the framework of the *BioMiti* project and focused on the monitoring of local fauna and alpine ecosystems (e.g. alpine avian communities in proglacial areas).

Education

- 2022 - 2024 **M.Sc. in Polar Landscapes and Quaternary Climate** Stockholm University
Master's Programme focused on the evolution of Earth's cryosphere in a changing climate and Quaternary climate history at high latitudes.
 - Thesis: "3D-Modelling of Ice Dynamics at C.H. Ostenfeld Glacier, Northern Greenland" (60 credits), published on [DiVA portal](#).
 - Final thesis grade: A.
 - Total amount of credits: 120.
 - GPA (independently calculated): 4.00/4
 - Address: Svante Arrhenius väg 8, Stockholm (Sweden).
- 2018 - 2021 **B.Sc. in Environmental Sciences** University of Bologna
Highly interdisciplinary Bachelor's Programme. Relevant focuses: Earth Science, Chemistry, Biology, Ecology, Oceanography, Mathematics, Physics.
 - Total amount of credits: 180.
 - Final grade: 110/110 cum laude.
 - GPA (independently calculated): 4.00/4.
 - Address: Via Zamboni 33, Bologna (Italy).
- 2013 - 2018 **Scientific High School** Liceo Scientifico Galileo Galilei
Specialisation in mathematics and physics. Other relevant subjects: nature science, Latin, German.
 - Address: Viale Bolognini 88, Trento (Italy).
 - Final grade: 100/100 cum laude.

Scholarships and Awards

- 2020 "Premio di studio per studenti meritevoli 2019/2020" - Study Award to Meritorious Students 2019/2020. University of Bologna

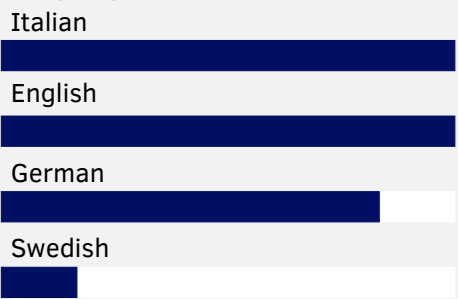
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Personal interests

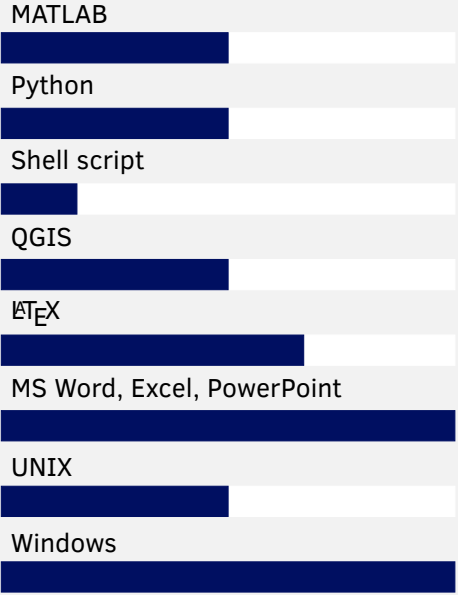
- Alpine and polar glaciology
- Alpine and polar geomorphology
- Quaternary ice ages and archaeology
- Science communication and divulgation
- Philosophy of science and classical literature

Languages



Scale: beginner (A1) - fluent (C1/C2).

Technical skills



Scale: basic skills - expert

Other Education and certifications

6-7/2023	"Sedimentology Field Course - from Depositional Systems to Sedimentary Architecture" (10 credits) in Longyearbyen, Svalbard. Relevant project topic: Evolution of Glacial Landscapes after the Little Ice Age. UNIS - The University Centre in Svalbard
6/2023	"UNIS Polar Bear Safety course" UNIS - The University Centre in Svalbard
6/2023	"UNIS Survival Suit course" UNIS - The University Centre in Svalbard
2021-2022	Single learning activities at the Geology Department of Alma Mater Studiorum - University of Bologna (22 credits). Subjects: Sedimentology and Stratigraphy, Mineralogy, Geology of Italy. University of Bologna

Volunteering experience

11/2021	Nival field data reviewer SAT - Trento Alpinists' Society Volunteering experience at the Glaciological Committee of SAT - Trento Alpinists' Society (Trento, Italy), dealing with the assessment of spreading algal blooms (<i>Chlamydomonas nivalis</i>) on snow cover in the Italian Rhetian Alps. Main contributions: Field data classification and review.
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Networks and Memberships

2024-present	APECS Italy - Association of Polar Early Career Scientists (Italian branch of the international association based in Tromsø, Norway). Master student member.
2024-present	QRA - Quaternary Research Association (London, United Kingdom). Student member.
2023-2024	Bolin Centre for Climate Research (Stockholm University, Stockholm, Sweden). Master student member.