# Loris Danjou

*PhD candidate at UiT The Arctic University of Norway*
*Sea ice remote sensing*

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## Professional experience

October 2025 – **PhD candidate**, *UiT The Arctic University of Norway*, Tromsø, Norway
Influence of the snow properties on sea ice L-band SAR backscatter.

Spring 2025 **Master's thesis**, *UNIS*, Longyearbyen, Svalbard
Svalbard ECV retrieval using archived satellite images 1960-1979.
Supervisor: Eero Rinne.

Field teaching assistant academy course.

Spring 2023 **Intern**, *Météo-France*, Toulouse, France
Development and evaluation of statistical downscaling on La Réunion island using deep learning methods.
Supervisor: Laure Raynaud.

Summer 2024 (2021, 2020, 2019) **Lifeguard**, *Lourdes municipal pool*, Lourdes, France

Summer 2022 **Lifeguard**, *Bagnères-de-Bigorre municipal pool*, Bagnères-de-Bigorre, France

## Education

April 2025 **Field TA academy**, *UNIS*, Longyearbyen, Svalbard
5-day teaching assistant training

2024 – 2025 **Master of Science**, *Université Paul Sabatier*, Toulouse, France
Ocean, atmosphere and climate sciences (oceanography, meteorology, geophysical fluid dynamics, climate system, extrem events and natural hazards).

2021 – 2025 **Master of Science**, *ISAE-SUPAERO*, Toulouse, France
Specialisation in Earth observation (remote sensing, data processing, etc.) and complex systems modelling (applied mathematics, optimisation, etc.).

Spring 2024 **Exchange semester**, *UNIS*, Longyearbyen, Svalbard
AGF-211-212: Aire-Ice-Sea Interractions & Snow and Ice Processes.
AGF-216 : The Stormy Sun and the Northern Lights.
AS-101 : Arctic Safety and Survival.
Fieldwork : 6 days on Tellbreen (glacier) to estimate its mass balance, 6-day scientific cruise to St. Jonsfjorden to analyse synoptic weather on sea ice conditions.

Autumn 2023 **Exchange semester**, *Stockholm University*, Stockholm, Sweden
Meteorology I & II (thermodynamics, radiation, atmospheric chemestry, synoptic and dynamic meteorology), Clouds Micro- and Macrophysics.

2019 – 2021 **Preparatory class**, *Lycée Pierre de Fermat*, Toulouse, France
Engineering school competitive exam preparation. Mathematics, Physics, Engineering Sciences.

## Languages

French native

English C1, TOEFL ITP score: 643.

## Publications

[1] Loris Danjou, Eero Rinne, and Erik Schytt Mannerfelt. "Svalbard glacier calving front changes from the 1930s to the 1970s from archived satellite and aerial images". In: *The Cryosphere* 20.7 (July 28, 2026), pp. 4133–4155. DOI: 10.5194/tc-20-4133-2026. URL: https://tc.copernicus.org/articles/20/4133/2026/.

[2] Loris Danjou and Eero Rinne. "Gamle data gir ny innsikt om breenes tilbaketrekning". In: *Svalbardposten* (Nov. 23, 2025). Op-ed (kronikk). URL: https://www.svalbardposten.no/glasiologi-isbreer-klimaforskning/gamle-data-gir-ny-innsikt-om-breenes-tilbaketrekning/594571.

## Fieldwork

April – May 2026 **CEMSIE**, Cambridge Bay, NU, Canada
Sea ice fieldwork: snow and ice geophysics and surface based remote sensing

Spring 2024 **AGF-211-212 educational fieldwork**, *UNIS*, Longyearbyen, Svalbard
ne week of glacier fieldwork on Tellbreen (surface mass balance) and one-week scientific cruise to St. Jonsfjorden to deploy weather stations on sea ice.