

# Line Rouyet – Curriculum vitae with publication list

## Personal information

First name, Surname:	<b>Rouyet, Line</b>		
Date of birth:	15.10.1987	Gender:	Female
Nationality:	Swiss	Languages	French, Norwegian, English
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	ORCID: 0000-0002-5255-8810 Cristin-ID: 677078		
URL for personal website:	<a href="https://www.norceresearch.no/personer/line-rouyet">https://www.norceresearch.no/personer/line-rouyet</a> <a href="https://app.cristin.no/persons/show.jsf?id=677078">https://app.cristin.no/persons/show.jsf?id=677078</a> <a href="https://www.researchgate.net/profile/Line-Rouyet">https://www.researchgate.net/profile/Line-Rouyet</a>		

## Education

Year	Name of faculty/department, name of university/institution, country
2021	PhD in Geosciences – UiT The Arctic University of Norway, Norway (Thesis title: Ground Dynamics in the Norwegian Periglacial Environment Investigated by Synthetic Aperture Radar Interferometry)
2013	Master in Geosciences – Faculty of Geosciences and Environment (FGSE), University of Lausanne, Switzerland (Thesis title: Monitoring and characterization of rock slope instabilities in Norway using GB-InSAR)

## Positions - current and previous

Year	Job title/name of employer/country
2023-	Researcher (80%) – NORCE Norwegian Research Centre AS, Technology Department, Tromsø, Norway Senior Researcher (20%) – University of Fribourg, Department of Geosciences, Fribourg, Switzerland.
2021-2022	Researcher (100%) – NORCE Norwegian Research Centre AS, Technology Dept., Tromsø, Norway
2017-2021	PhD candidate (75%) and researcher (25%) – NORCE Norwegian Research Centre AS, Technology Dept., Tromsø, Norway
2013-2021	Researcher (100%) – Norut Northern Research Institute AS, Earth Observation Dept., Tromsø, Norway
2011-2013	Student assistant (20%) in soil/rock mechanics and landslide monitoring – Faculty of Geosciences and Environment (FGSE), University of Lausanne, Switzerland
2010-2011	6 months trainee (100%) in engineering geology – BEG SA, Aproz, Switzerland and CSD Engineers, Lausanne, Switzerland

## Peer-reviewed scientific papers (chronological order):

- Lilleøren, K. S., Etzelmüller, B., [Rouyet, L.](#), Eiken, T., Slinde, G., & Hilbich, C. (2022). Transitional rock glaciers at sea level in northern Norway. *Earth Surf. Dyn.*, 10(5), 975–996. [10.5194/esurf-10-975-2022](https://doi.org/10.5194/esurf-10-975-2022)
- Bertone, A., ..., [Rouyet, L.](#), et al. (2022). Incorporating InSAR kinematics into rock glacier inventories: insights from 11 regions worldwide. *The Cryosphere* 16:2769–2792. [10.5194/tc-16-2769-2022](https://doi.org/10.5194/tc-16-2769-2022).
- [Rouyet L.](#), Karjalainen O., Niittynen P., Aalto J., Luoto M., Lauknes T.R., Larsen Y., Hjort J. (2021) Environmental Controls of InSAR-Based Periglacial Ground Dynamics in a Sub-Arctic Landscape. *J. Geophys. Res. Earth Surf.* 126:e2021JF006175. [10.1029/2021JF006175](https://doi.org/10.1029/2021JF006175).
- [Rouyet L.](#) et al. (2021) Regional Morpho-Kinematic Inventory of Slope Movements in Northern Norway. *Frontiers in Earth Science* 9:681088. [10.3389/feart.2021.681088](https://doi.org/10.3389/feart.2021.681088).

5. [Rouyet L.](#), Liu L., Strand S.M., Christiansen H.H., Lauknes T.R., Larsen Y. (2021) Seasonal InSAR Displacements Documenting the Active Layer Freeze and Thaw Progression in Central-Western Spitsbergen, Svalbard. **Remote Sens.** 13:2977. [10.3390/rs13152977](https://doi.org/10.3390/rs13152977).
6. Vick L.M., Böhme M., [Rouyet L.](#), Bergh S.G., Corner G.D., Lauknes T.R. (2020) Structurally controlled rock slope deformation in northern Norway. **Landslides** 17:1745–1776. [10.1007/s10346-020-01421-7](https://doi.org/10.1007/s10346-020-01421-7).
7. [Rouyet L.](#), Lauknes T.R., Christiansen H.H., Strand S.M., Larsen Y. (2019) Seasonal dynamics of a permafrost landscape, Adventdalen, Svalbard, investigated by InSAR. **Remote Sens. Environ.** 231:111236. [10.1016/j.rse.2019.111236](https://doi.org/10.1016/j.rse.2019.111236).
8. Eriksen H.Ø., [Rouyet L.](#), Lauknes T.R., Berthling I., Isaksen K., Hindberg H., Larsen Y., Corner G.D. (2018) Recent acceleration of a rock glacier complex, Ádjet, Norway, documented by 62 years of remote sensing observations. **Geophys. Res. Lett.** 45(16):8314–8323. [10.1029/2018GL077605](https://doi.org/10.1029/2018GL077605).
9. Eckerstorfer M., Eriksen H.Ø., [Rouyet L.](#), Christiansen H.H., Lauknes T.R., Blikra L.H. (2018) Comparison of geomorphological field mapping and 2D-InSAR mapping of periglacial landscape activity at Nordnesfjellet, northern Norway. **Earth Surf. Process. Landf.** 43(10):2147–2156. [10.1002/esp.4380](https://doi.org/10.1002/esp.4380).
10. Akbari, V., Lauknes, T. R., [Rouyet L.](#), Negrel, J., & Eltoft, T. (2018). Validation of SAR iceberg detection with ground-based radar and GPS measurements. *IGARSS 2018-2018 IEEE International Geoscience and Remote Sensing Symposium* (4623–4626). IEEE. [10.1109/IGARSS.2018.8517286](https://doi.org/10.1109/IGARSS.2018.8517286).
11. [Rouyet L.](#), Kristensen L., Derron M.-H., Michoud C., Blikra L.H., Jaboyedoff M., Lauknes T.R. (2017) Evidence of rock slope breathing using ground-based InSAR. **Geomorphology** 289:152–69. [10.1016/j.geomorph.2016.07.005](https://doi.org/10.1016/j.geomorph.2016.07.005).
12. Negrel J., Gerland S., Doulgeris A.P., Lauknes T.R., [Rouyet L.](#) (2017) On the potential of hand-held GPS tracking of fjord ice features for remote-sensing validation. **Ann. Glaciol.** 59(76):173–180. [10.1017/aog.2017.35](https://doi.org/10.1017/aog.2017.35).
13. Bardi, F., Raspini, F., Ciampalini, A., Kristensen, L., [Rouyet L.](#), Lauknes, T. R., ... & Casagli, N. (2016). Space-borne and ground-based InSAR data integration: the Åknes test site. **Remote Sens.**, 8(3), 237. [10.3390/rs8030237](https://doi.org/10.3390/rs8030237).

#### Other scientific contributions (selection):

- [Rouyet L.](#), 2021. Ground Dynamics in the Norwegian Periglacial Environment Investigated by Synthetic Aperture Radar Interferometry. *Doctoral thesis*. UiT The Arctic University of Norway. <https://hdl.handle.net/10037/22231>.
- Retelle, M., Christiansen, H., Hodson, A., Nikulina, A., Osuch, M., Poleshuk, K., Romashova, K., Roof, S., [Rouyet L.](#), Strand, S.M. and Vasilevich, I., 2020. Environmental Monitoring in the Kapp Linne-Gronfjorden Region (KLEO). *The State of Environmental Science in Svalbard (SESS) 2019*. [https://sios-svalbard.org/sites/sios-svalbard.org/files/common/SESS\\_2019\\_03\\_KLEO.pdf](https://sios-svalbard.org/sites/sios-svalbard.org/files/common/SESS_2019_03_KLEO.pdf)
- [Rouyet L.](#), Eckerstorfer, M., Lauknes T. R., Malnes, E., Christiansen, H. H., Larsen, Y., Høgda, K.-A. (2016). PERMASAT – Satellites for detection of permafrost landscape changes in Arctic regions. Final report. *Report 12/2016*. Norut.
- [Rouyet L.](#), Eckerstorfer, M., Lauknes T. R., Riise, T. (2017). Deformasjonskartlegging rundt Longyearbyen ved bruk av satellittbasert radarinterferometri. *Rapport 13/2017*. Norut. <https://www.miljovernfondet.no/wp-content/uploads/2020/02/17-59-terrengstabilitet-lyr.pdf>
- [Rouyet L.](#), Lauknes, T.R., Høgda, K.-A. (2015). Spaceborne radar interferometry (InSAR) for natural hazards, landslides and infrastructure: limitations and potential / Satellittbasert radarinterferometri (InSAR) for naturfare, skred og infrastruktur: begrensninger og muligheter. *Report 5/2015*. Norut. [https://publikasjoner.nve.no/rapport/2015/rapport2015\\_122.pdf](https://publikasjoner.nve.no/rapport/2015/rapport2015_122.pdf)