Stef Lhermitte

REMOTE SENSING SCIENTIST



Dr. Ir.

stef.lhermitte@gmail.com **∑**

s.lhermitte@tudelft.nl 🗷

(+32) 498 569351 📞

血

Room 2.22 Stevinweg 1 2600GA Delft Netherlands

Belgian 📂 9 Feb 1979 😃

@StefLhermitte ¥

steflhermitte in

www.earthmapps.io 🖵

0000-0002-1622-0177 \bigcirc researchgate R^{6}

gScholar 🞖

impactstory 10

github 🗘

publons p

vimeo **v**instagram **o**

Profile

Remote sensing scientist with specific interest in the use of multi-source remote sensing, land surface modelling and machine learning to assess cryosphere, atmosphere and ecosystem dynamics.

Stef Lhermitte is assistant professor Geoscience & Remote Sensing at TUDelft, after obtaining a PhD in bioscience engineering at KULeuven, Belgium, and several international post-docs positions (CEAZA, KNMI, KULeuven), where he worked on broad range of remote sensing technologies in a variety of applications ranging from cryospheric and atmospheric sciences to ecology and hydrology. Now he focuses on the development of innovative methods (e.g. machine learning) for assessing land-atmosphere interactions in order to assess the effect of climate (change) on the cryosphere, ecosystem dynamics, the hydrological cycle, sea level rise, etc. and their feedbacks on (future) climate.

Stef Lhermitte (co-)authored 66 publications in international and peer-reviewed scientific journals included in Web of Science and has an H-index of 33/39*. He is first/second author on 21 publications.

* Scopus/Google October 8, 2021

Current position

Assistant professor Geoscience & Remote Sensing

Delft University of Technology (TUDelft)

Department of Geoscience & Remote Sensing (GRS)

Education

2016 Post-academic track on Big data: management, analysis, visualization and

legal aspects

GHENT UNIVERSITY, BELGIUM

2004-2008 PhD in bioscience engineering

KULEUVEN, BELGIUM

Dissertation: Vegetation regrowth monitoring after wildfires based on satellite time series

similarity.

1999–2002 **MSc in engineering of forest and land management** [with high distinction]

KULEUVEN. BELGIUM

Dissertation: Improving soil salinity management in sugarcane using earth observation

1997–1999 **BSc (candidate) in bio-engineering** [with distinction]

University of Antwerp, Belgium

Experience

2016-now **Assistant professor**

DEPT. OF GEOSCIENCE & REMOTE SENSING, TUDELFT, NETHERLANDS

Assistant professor focusing on the combined use of multi-source remote sensing and land surface modelling to assess cryosphere, atmosphere and ecosystem dynamics.

2013-2016 FWO post-doctoral research fellow

DEPT. OF EARTH & ENVIRONMENTAL SCIENCE, KULEUVEN, BELGIUM

Postdoctoral research fellow combining multi-source remote sensing data and land surface models to assess cryosphere, atmosphere and ecosystem dynamics.

2011-2013 Post-doctoral researcher

ROYAL NETHERLANDS METEOROLOGICAL INSTITUTE (KNMI), NETHERLANDS

Postdoctoral researcher focusing on the improvement of the albedo parametrisation in the regional climate model RACMO using optical satellite remote sensing data (in cooperation with IMAU, Netherlands)

2008-2010 Remote sensing scientist & head of the Remote sensing and GIS laboratory

CEAZA, CENTRO DE ESTUDIOS AVANZADOS EN ZONAS ÁRIDAS, CHILE

Head of the Remote Sensing and GIS laboratory and remote sensing scientist working on use of multi-source satellite imagery to study hydrological, snow/ice and ecological processes in the arid zones of north-central Chile.

2008 Post-doctoral researcher

M3-BIORES, KULEUVEN, BELGIUM

Postdoc researcher focusing on the development of a hierarchical, multi-scale, spatio-temporal segmentation software tool (in cooperation with CSIRO, Australia).

2002-2008 Research associate and PhD student

M3-BIORES, KULEUVEN, BELGIUM

Research associate focusing on the development of new methodologies to assess ecosystem dynamics after wild fires based on satellite remote sensing time series data.

Publications

- 66 peer-reviewed publications since 2008 incl. 7 papers in high-impact inter-disciplinary journals (e.g., Nature Climate Change, 4x Nature Communications, Science Advances, PNAS)
- 21 publications as first/second author
- · Citations: 4090 (Google), 2791(Scopus)
- H-index: 39 (Google), 33 (Scopus)

Articles in peer reviewed journals

- 66. Voordendag, A., Réveillet, M., MacDonell, S., Lhermitte, S., (2021). "Snow model comparison to simulate snow depth evolution and sublimation at point scale in the semi-arid Andes of Chile". The Cryosphere, 15 (9), 4241–4259. doi: 10.5194/tc-15-4241-2021.
- 65. de Roda Husman, S., Sanden, J. J., Lhermitte, S., Eleveld, M. A., (2021). "Integrating intensity and context for improved supervised river ice classification from dual-pol Sentinel-1 SAR data". International Journal of Applied Earth Observation and Geoinformation, 101 (May), 102359. doi: 10.1016/j.jag.2021.102359.
- 64. Francis, D., Mattingly, K. S., Lhermitte, S., Temimi, M., Heil, P., (2021). "Atmospheric extremes caused high oceanward sea surface slope triggering the biggest calving event in more than 50 years at the Amery Ice Shelf". Cryosphere, 15 (5), 2147–2165. doi: 10.5194/tc-15-2147-2021.
- 63. Lhermitte, S., Sun, S., Shuman, C., Wouters, B., Pattyn, F., Wuite, J., Berthier, E., Nagler, T., (2020). "Damage accelerates ice shelf instability and mass loss in Amundsen Sea Embayment". Proceedings of the National Academy of Sciences, 201912890. doi: 10.1073/pnas. 1912890117.
- 62. Noël, B., Jakobs, C. L., Pelt, W. J. J., **Lhermitte, S.**, Wouters, B., Kohler, J., Hagen, J. O., Luks, B., Reijmer, C. H., Berg, W. J., Broeke, M. R., (2020). "Low elevation of Svalbard glaciers drives high mass loss variability". Nature Communications, 11 (1), 4597. doi: 10.1038/s41467-020-18356-1.

- 61. Kausch, T., Lhermitte, S., Lenaerts, J., Wever, N., Inoue, M., Pattyn, F., Sun, S., Wauthy, S., Tison, J.-L., van de Berg, W. J., (2020). "Impact of coastal East Antarctic ice rises on surface mass balance: insights from observations and modeling". The Cryosphere, 1–20. doi: 10.5194/tc-2020-66
- 60. Dunmire, D., Lenaerts, J. T. M., Banwell, A. F., Wever, N., Shragge, J., Lhermitte, S., Drews, R., Pattyn, F., Hansen, J. S. S., Willis, I. C., Miller, J., Keenan, E., (2020). "Observations of buried lake drainage on the Antarctic Ice Sheet". Geophysical Research Letters. doi: 10.1029/2020GL087970.
- 59. Izeboud, M., Lhermitte, S., Van Tricht, K., Lenaerts, J. T. M., Van Lipzig, N. P. M., Wever, N., (2020). "The Spatiotemporal Variability of Cloud Radiative Effects on the Greenland Ice Sheet Surface Mass Balance". Geophysical Research Letters, 47 (12). doi: 10.1029/2020GL087315.
- 58. Kampenhout, L., Lenaerts, J. T., Lipscomb, W. H., Lhermitte, S., Noël, B., Vizcaíno, M., Sacks, W. J., Broeke, M. R., (2020). "Present-Day Greenland Ice Sheet Climate and Surface Mass Balance in CESM2". Journal of Geophysical Research: Earth Surface, 125 (2). doi: 10. 1029/2019JF005318.
- 57. Réveillet, M., MacDonell, S., Gascoin, S., Kinnard, C., Lhermitte, S., Schaffer, N., (2020). "Impact of forcing on sublimation simulations for a high mountain catchment in the semiarid Andes". The Cryosphere, 14 (1), 147–163. doi: 10.5194/tc-14-147-2020.
- 56. Noel, B. P. Y., van de Berg, W. J., Lhermitte, S., van den Broeke, M. R., (2019). "Rapid ablation zone expansion amplifies north Greenland mass loss". Science Advances, 5 (9), eaaw0123. doi: 10.1126/sciadv.aaw0123.
- 55. Datta, R. T., Tedesco, M., Fettweis, X., Agosta, C., Lhermitte, S., Lenaerts, J. T. M., Wever, N., (2019). "The Effect of Foehn-Induced Surface Melt on Firn Evolution Over the Northeast Antarctic Peninsula". Geophysical Research Letters, 46 (7), 3822–3831. doi: 10.1029/2018GL080845.
- 54. Gossart, A., Palm, S. P., Souverijns, N., Lenaerts, J. T. M., Gorodetskaya, I. V., **Lhermitte, S.**, Lipzig, N. P. M., (2019). "Blowing snow in East Antarctica: comparison of ground-based and space-borne retrievals". The Cryosphere Discussions. doi: 10.5194/tc-2019-25.
- 53. Réveillet, M., MacDonell, S., Gascoin, S., Kinnard, C., Lhermitte, S., Schaffer, N., (2019). "Impact of forcing on sublimation simulations for a high mountain catchment in the semi-arid Andes". The Cryosphere*. doi: 10.5194/tc-2019-31. ... * Accepted and in-press.
- 52. Souverijns, N., Gossart, A., Lhermitte, S., Gorodetskaya, I. V., Grazioli, J., Berne, A., Duran-Alarcon, C., Boudevillain, B., Genthon, C., Scarchilli, C., Van Lipzig, N. P., (2018). "Evaluation of the CloudSat surface snowfall product over Antarctica using ground-based precipitation radars". The Cryosphere, 12 3775–3789. doi: 10.5194/tc-12-3775-2018.
- 51. Souverijns, N., Gossart, A., Gorodetskaya, I. V., Lhermitte, S., Mangold, A., Laffineur, Q., Delcloo, A., van Lipzig, N. P. M., (2018). "How does the ice sheet surface mass balance relate to snowfall? Insights from a ground-based precipitation radar in East Antarctica". The Cryosphere, 12 (6), 1987–2003. doi: 10.5194/tc-12-1987-2018.
- 50. Noël, B., van de Berg, W. J., Lhermitte, S., Wouters, B., Schaffer, N., van den Broeke, M. R., (2018). "Six decades of glacial mass loss in the Canadian Arctic Archipelago". Journal of Geophysical Research: Earth Surface, 123 (6), 1430–1449. doi: 10.1029/2017JF004304.
- 49. van Wessem, J. M., van de Berg, W. J., Noël, B. P. Y., van Meijgaard, E., Amory, C., Birnbaum, G., Jakobs, C. L., Krüger, K., Lenaerts, J. T. M., Lhermitte, S., Ligtenberg, S. R. M., Medley, B., Reijmer, C. H., van Tricht, K., Trusel, L. D., van Ulft, L. H., Wouters, B., Wuite, J., van den Broeke, M. R., (2018). "Modelling the climate and surface mass balance of polar ice sheets using RACMO2 Part 2: Antarctica (1979–2016)". The Cryosphere, 12 (4), 1479–1498. doi: 10.5194/tc-12-1479-2018.
- 48. Noël, B., van de Berg, W. J., van Wessem, J. M., van Meijgaard, E., van As, D., Lenaerts, J. T. M., Lhermitte, S., Kuipers Munneke, P., Smeets, C. J. P. P., van Ulft, L. H., van de Wal, R. S. W., van den Broeke, M. R., (2018). "Modelling the climate and surface mass balance of polar ice sheets using RACMO2 Part 1: Greenland (1958–2016)". The Cryosphere, 12 (3), 811–831. doi: 10.5194/tc-12-811-2018.
- 47. Gossart, A., Souverijns, N., Gorodetskaya, I. V., **Lhermitte, S.**, Lenaerts, J. T., Schween, J. H., Mangold, A., Laffineur, Q., Van Lipzig, N. P., (2017). "Blowing snow detection from ground-based ceilometers: Application to East Antarctica". Cryosphere, 11 (6), 2755–2772. doi: 10.5194/tc-11-2755-2017.
- 46. Thiery, W., Gudmundsson, L., Bedka, K., Semazzi, F., Lhermitte, S., Willems, P., Van Lipzig, N., Seneviratne, S., (2017). "Early warnings of hazardous thunderstorms over Lake Victoria". Environmental Research Letters, 12 (7), 12 074012. doi: 10.1088/1748-9326/aa7521.
- 45. Souverijns, N., Gossart, A., Lhermitte, S., Gorodetskaya, I., Kneifel, S., Maahn, M., Bliven, F., Van Lipzig, N. P. M., (2017). "Estimating radar reflectivity snowfall rate relationships and their uncertainties over Antarctica by combining disdrometer and radar observations". Atmospheric research, 196 211–223. doi: 10.1016/j.atmosres.2017.06.001.

- 44. Lenaerts, J., Van Tricht, K., Lhermitte, S., L'Ecuyer, T., (2017). "Polar clouds and radiation in satellite observations, reanalyses, and climate models". Geophysical Research Letters, 44. doi: 10.1002/2016GL072242.
- 43. Noël, B., van de Berg, W. J., **Lhermitte, S.**, Wouters, B., Machguth, H., Howat, I., Citterio, M., Moholdt, G., Lenaerts, J. T. M., van den Broeke, M. R., (2017). "A tipping point in refreezing accelerates mass loss of Greenland's glaciers and ice caps". Nature Communications. doi: 10.1038/ncomms14730.
- 42. Lenaerts, J. T. M. *., Lhermitte, S. *., Drews, R., Ligtenberg, S. R. M., Berger, S., Helm, V., Smeets, C. J. P. P., van den Broeke, M. R., van de Berg, W. J., Eijkelboom, M., Eisen, O., Pattyn, F., (2017). "Meltwater produced by wind-albedo interaction stored in an East Antarctic ice shelf." Nature Climate Change, 7 58–62. doi: 10.1038/NCLIMATE3180. [A. * Joint first author
- 41. Steger, C. R., Reijmer, C. H., van den Broeke, M. R., Wever, N., Forster, R. R., Koenig, L. S., Kuipers-Munneke, P., Lehning, M., Lhermitte, S., Ligtenberg, S. R. M., Miège, C., Noël, B. P. Y., (2017). "Firn meltwater retention on the Greenland Ice Sheet: a model comparison". Frontiers in Earth Science, 5 (3). doi: 10.3389/feart.2017.00003.
- 40. De Keersmaecker, W., Lhermitte, S., Hill, M. J., Tits, L., Coppin, P., Somers, B., (2017). "Assessment of regional vegetation response to climate anomalies: a case study for Australia using GIMMS NDVI time series between 1982 and 2006". Remote Sensing, 9 (1), 34. doi: 10.3390/rs9010034.
- 39. De Keersmaecker, W., Rooijen, N., Lhermitte, S., Tits, L., Schaminée, J., Coppin, P., Honnay, O., Somers, B., (2016). "Species-rich semi-natural grasslands have a higher resistance but a lower resilience than intensively managed agricultural grasslands in response to climate anomalies". Journal of Applied Ecology, 53 (2), 430–439. doi: 10.1111/1365-2664.12595.
- 38. Docquier, D., Thiery, W., Lhermitte, S., Lipzig, N., (2016). "Multi-year wind dynamics around Lake Tanganyika". Climate Dynamics, 47 (9), 3191–3202. doi: 10.1007/s00382-016-3020-z.
- 37. Noël, B., Berg, W. J., Machguth, H., Lhermitte, S., Howat, I., Fettweis, X., Van Den Broeke, M. R., (2016). "A daily, 1-km resolution dataset of downscaled Greenland ice sheet surface mass balance (1958-2015)". Cryosphere, 10 2361–2377. doi: 10.5194/tc-10-2361-2016.
- 36. Van Tricht, K., Lhermitte, S., Gorodetskaya, I. V., Van Lipzig, N. P. M., (2016). "Improving satellite-retrieved surface radiative fluxes in polar regions using a smart sampling approach". Cryosphere, 10 2379–2397. doi: 10.5194/tc-10-2379-2016.
- 35. Hawinkel, P., Thiery, W., Lhermitte, S., Swinnen, E., Verbist, B., Van Orshoven, J., Muys, B., (2016). "Vegetation response to precipitation variability in East Africa controlled by biogeographical factors". Journal of Geophysical Research: Biogeosciences, 121 (9), 2422–2444. doi: 10.1002/2016JG003436.
- 34. Thiery, W., Davin, E. L., Seneviratne, S. I., Bedka, K., Lhermitte, S., Van Lipzig, N. P. M., (2016). "Hazardous thunderstorm intensification over Lake Victoria". Nature Communications, 7 12786. doi: 10.1038/ncomms12786.
- 33. Hublart, P., Ruelland, D., García de Cortázar-Atauri, I., Gascoin, S., Lhermitte, S., Ibacache, A., (2016). "Reliability of lumped hydrological modeling in a semi-arid mountainous catchment facing water-use changes". Hydrology and Earth System Sciences, 20 (9), 3691–3717. doi: 10.5194/hess-20-3691-2016.
- 32. Van Tricht, K., Lhermitte, S., Lenaerts, J., Gorodetskaya, I., L'Ecuyer, T., Noël, B., Van Den Broeke, M., Turner, D., Van Lipzig, N., (2016). "Clouds enhance Greenland ice sheet meltwater runoff". Nature Communications, 7 10266. doi: 10.1038/ncomms10266.
- 31. Thiery, W., Davin, E. L., Panitz, H.-J., Demuzere, M., Lhermitte, S., Van Lipzig, N., (2015). "The Impact of the African Great Lakes on the Regional Climate". Journal of Climate, 28 (10), 4061–4085. doi: 10.1175/JCLI-D-14-00565.1.
- 30. Hawinkel, P., Swinnen, E., Lhermitte, S., Verbist, B., Van Orshoven, J., Muys, B., (2015). "A time series processing tool to extract climate-driven interannual vegetation dynamics using Ensemble Empirical Mode Decomposition (EEMD)". Remote Sensing of Environment, 169 375–389. doi: 10.1016/j.rse.2015.08.024.
- 29. Vanonckelen, S., Lhermitte, S., Van Rompaey, A., (2015). "The effect of atmospheric and topographic correction on pixel-based image composites: Improved forest cover detection in mountainenvironments". International Journal of Applied Earth Observation and Geoinformation, 35 (PB), 320–328. doi: 10.1016/j.jag.2014.10.006.
- 28. De Keersmaecker, W., Lhermitte, S., Tits, L., Honnay, O., Somers, B., Coppin, P., (2015). "A model quantifying global vegetation resistance and resilience to short-term climate anomalies and their relationship with vegetation cover". Global Ecology and Biogeography, 24 (5), 539–548. doi: 10.1111/geb.12279.
- 27. De Keersmaecker, W., Lhermitte, S., Tits, L., Honnay, O., Somers, B., Coppin, P., (2015). "Resilience and the reliability of spectral entropy to assess ecosystem stability". Global Change Biology. doi: 10.1111/gcb.12799.

- 26. Bertin, A., Alvarez, E., Gouin, N., Gianoli, E., Montecinos, S., Lek, S., Gascoin, S., Lhermitte, S., (2015). "Effects of wind-driven spatial structure and environmental heterogeneity on high-altitude wetland macroinvertebrate assemblages with contrasting dispersal modes". Freshwater Biology, 60 (2), 297–310. doi: 10.1111/fwb.12488.
- 25. Maahn, M., Burgard, C., Crewell, S., Gorodetskaya, I., Kneifel, S., Lhermitte, S., Van Tricht, K., Van Lipzig, N., (2014). "How does the spaceborne radar blind zone affect derived surface snowfall statistics in polar regions?". Journal of Geophysical Research Atmospheres, 119 (24), 13604–13620. doi: 10.1002/2014JD022079.
- 24. **Lhermitte, S.**, Abermann, J., Kinnard, C., (2014). "Albedo over rough snow and ice surfaces". Cryosphere, 8 (3), 1069–1086. doi: 10.5194/tc-8-1069-2014.
- 23. Van Tricht, K., Gorodetskaya, I., Lhermitte, S., Turner, D., Schween, J., Van Lipzig, N., (2014). "An improved algorithm for polar cloud-base detection by ceilometer over the ice sheets". Atmospheric Measurement Techniques, 7 (5), 1153–1167. doi: 10.5194/amt-7-1153-2014
- 22. Vanonckelen, S., Lhermitte, S., Balthazar, V., Van Rompaey, A., (2014). "Performance of atmospheric and topographic correction methods on Landsat imagery in mountain areas". International Journal of Remote Sensing, 35 (13), 4952–4972. doi: 10.1080/01431161.2014. 933280.
- 21. De Keersmaecker, W., Lhermitte, S., Honnay, O., Farifteh, J., Somers, B., Coppin, P., (2014). "How to measure ecosystem stability? An evaluation of the reliability of stability metrics based on remote sensing time series across the major global ecosystems". Global Change Biology, 20 (7), 2149–2161. doi: 10.1111/gcb.12495.
- 20. Vanonckelen, S., Lhermitte, S., Van Rompaey, A., (2013). "The effect of atmospheric and topographic correction methods on land cover classification accuracy". International Journal of Applied Earth Observation and Geoinformation, 24 (1), 9–21. doi: 10.1016/j.jag.2013.02.
- 19. Gascoin, S., Lhermitte, S., Kinnard, C., Bortels, K., Liston, G., (2013). "Wind effects on snow cover in Pascua-Lama, Dry Andes of Chile". Advances in Water Resources, 55 25–39. doi: 10.1016/j.advwatres.2012.11.013.
- 18. Van Angelen, J., Lenaerts, J., Lhermitte, S., Fettweis, X., Kuipers Munneke, P., Van Den Broeke, M., Van Meijgaard, E., P. Smeets, C., (2012). "Sensitivity of Greenland Ice Sheet surface mass balance to surface albedo parameterization: A study with a regional climate model". Cryosphere, 6 (5), 1175–1186. doi: 10.5194/tc-6-1175-2012.
- 17. Veraverbeke, S., Verstraeten, W., **Lhermitte, S.**, Van De Kerchove, R., Goossens, R., (2012). "Assessment of post-fire changes in land surface temperature and surface albedo, and their relation with fireburn severity using multitemporal MODIS imagery". International Journal of Wildland Fire, 21 (3), 243–256. doi: 10.1071/WF10075.
- 16. Van De Kerchove, R., Lhermitte, S., Veraverbeke, S., Goossens, R., (2012). "Spatio-temporal variability in remotely sensed land surface temperature, and its relationship with physiographic variables in the Russian Altay Mountains". International Journal of Applied Earth Observation and Geoinformation, 20 (1), 4–19. doi: 10.1016/j.jag.2011.09.007.
- 15. **Lhermitte, S.**, Verbesselt, J., Verstraeten, W., Coppin, P., (2011). "A comparison of time series similarity measures for classification and change detection of ecosystem dynamics". Remote Sensing of Environment, 115 (12), 3129–3152. doi: 10.1016/j.rse.2011.06.020.
- 14. Gascoin, S., Kinnard, C., Ponce, R., **Lhermitte, S.**, MacDonell, S., Rabatel, A., (2011). "Glacier contribution to streamflow in two headwaters of the Huasco River, Dry Andes of Chile". Cryosphere, 5 (4), 1099–1113. doi: 10.5194/tc-5-1099-2011.
- 13. Veraverbeke, S., Lhermitte, S., Verstraeten, W., Goossens, R., (2011). "Evaluation of pre/post-fire differenced spectral indices for assessing burn severity in a mediterranean environment with landsat thematic mapper". International Journal of Remote Sensing, 32 (12), 3521–3537. doi: 10.1080/01431161003752430.
- 12. Veraverbeke, S., Lhermitte, S., Verstraeten, W., Goossens, R., (2011). "A time-integrated MODIS burn severity assessment using the multi-temporal differenced normalized burn ratio (dNBRMT)". International Journal of Applied Earth Observation and Geoinformation, 13 (1), 52–58. doi: 10.1016/j.jag.2010.06.006.
- 11. **Lhermitte, S.**, Verbesselt, J., Verstraeten, W., Veraverbeke, S., Coppin, P., (2011). "Assessing intra-annual vegetation regrowth after fire using the pixel based regeneration index". ISPRS Journal of Photogrammetry and Remote Sensing, 66 (1), 17–27. doi: 10.1016/j.isprsjprs. 2010.08.004
- 10. Veraverbeke, S., Lhermitte, S., Verstraeten, W., Goossens, R., (2010). "The temporal dimension of differenced Normalized Burn Ratio (dNBR) fire/burn severity studies: The case of the large 2007 Peloponnese wildfires in Greece". Remote Sensing of Environment, 114 (11), 2548–2563. doi: 10.1016/j.rse.2010.05.029.
- 9. Veraverbeke, S., Verstraeten, W., Lhermitte, S., Goossens, R., (2010). "Evaluating Landsat Thematic Mapper spectral indices for estimating burn severity of the 2007 Peloponnese wildfires in Greece". International Journal of Wildland Fire, 19 (5), 558–569. doi: 10.1071/WF09069.

- 8. Lhermitte, S., Verbesselt, J., Verstraeten, W., Coppin, P., (2010). "A pixel based regeneration index using time series similarity and spatial context". Photogrammetric Engineering and Remote Sensing, 76 (6), 673–682
- 7. Verstraeten, W., Vermeulen, B., Stuckens, J., Lhermitte, S., Zande, D., Ranst, M., Coppin, P., (2010). "Webcams for bird detection and monitoring: A demonstration study". Sensors, 10 (4), 3480–3503. doi: 10.3390/s100403480.
- 6. Veraverbeke, S., Verstraeten, W., Lhermitte, S., Goossens, R., (2010). "Illumination effects on the differenced Normalized Burn Ratio's optimality for assessing fire severity". International Journal of Applied Earth Observation and Geoinformation, 12 (1), 60–70. doi: 10. 1016/i.jaq.2009.10.004.
- 5. Delalieux, S., Auwerkerken, A., Verstraeten, W., Somers, B., Valcke, R., Lhermitte, S., Keulemans, J., Coppin, P., (2009). "Hyperspectral reflectance and fluorescence imaging to detect scab induced stress in apple leaves". Remote Sensing, 1 (4), 858–874. doi: 10.3390/rs1040858.
- 4. Somers, B., Delalieux, S., Verstraeten, W., Verbesselt, J., Lhermitte, S., Coppin, P., (2009). "Magnitude- and shape-related feature integration in hyperspectral mixture analysis to monitor weeds in citrus orchards". IEEE Transactions on Geoscience and Remote Sensing, 47 (11), 3630–3642. doi: 10.1109/TGRS.2009.2024207.
- 3. Lhermitte, S., Verbesselt, J., Jonckheere, I., Nackaerts, K., Aardt, J., Verstraeten, W., Coppin, P., (2008). "Hierarchical image segmentation based on similarity of NDVI time series". Remote Sensing of Environment, 112 (2), 506–521. doi: 10.1016/j.rse.2007.05.018.
- 2. Verbesselt, J., Somers, B., Lhermitte, S., Jonckheere, I., Aardt, J., Coppin, P., (2007). "Monitoring herbaceous fuel moisture content with SPOT VEGETATION time-series for fire risk prediction in savanna ecosystems". Remote Sensing of Environment, 108 (4), 357–368. doi: 10.1016/j.rse.2006.11.019.
- 1. Verbesselt, J., Jönsson, P., **Lhermitte, S.**, Van Aardt, J., Coppin, P., (2006). "Evaluating satellite and climate data-derived indices as fire risk indicators in savanna ecosystems". IEEE Transactions on Geoscience and Remote Sensing, 44 (6), 1622–1632. doi: 10.1109/TGRS. 2005.862262.

Student support & teaching

PhD supervision & support

2021-now **Shashwat Shukla,** Remote sensing of firn processes

CO-PROMOTOR, TUDELFT, NETHERLANDS Since Jan 2021; Funded by NWO Groot

2021-now Sophie de Roda Husman, Remote sensing of ice shelf melt

CO-PROMOTOR, TUDELFT, NETHERLANDS Since Jan 2021; Funded by NWO Groot

2019-now Maaike Izeboud, Remote sensing of damage feedbacks and ice shelf instability

CO-PROMOTOR, TUDELFT, NETHERLANDS

Since May 2019; Funded by NWO User Support 2018

2018-now Weiran Li, Remote sensing of firn properties

CO-PROMOTOR, TUDELFT, NETHERLANDS

Since Jul 2018; Funded by NWO User Support 2017

2018-now Thore Kausch, Modelling & Remote Sensing of Antarctic SMB variability

CO-PROMOTOR, TUDELFT, NETHERLANDS Since Apr 2018; Funded by NWO Polar Program

2015-2019 **Niels Souverijns,** The role of cloud-aerosol interactions in East Antarctica's surface mass balance

CO-PROMOTOR, KULEUVEN, BELGIUM

Funded by FWO. Currently senior researcher @ VITO.

2015-2019 Alexandra Gossart, The role of snowdrift on local mass redistribution in East Antarctica

CO-PROMOTOR, KULEUVEN, BELGIUM. DEFENCE DATE 2019-12-12

Funded by Belgian Science Policy (Belspo) BRAIN. Starts post-doc @ Antarctica New Zealand.

2012-2016 Kristof Van Tricht, Understanding the role of clouds in the climate of Greenland

CO-PROMOTOR, KULEUVEN, BELGIUM

Funded by FWO PhD fellowships. Currently senior researcher @ VITO.

2011-2015 **Wanda De Keersmaecker,** Quantification of vegetation response to climate anomalies through remote sensing

Daily Supervisor, KULeuven, Belgium

Funded by Belgian Science Policy (Belspo) Earth Observation call: Stereo II. Currently post-doc researcher @ WUR.

2010-2014 **Steven Vanonckelen,** Detection and analysis of forest cover dynamics with Landsat satellite imagery, application in the Romanian Carpathian Ecoregion

DAILY SUPERVISOR, KULEUVEN, BELGIUM

Funded by Belgian Science Policy (Belspo) Earth Observation call: Stereo II. Currently senior researcher at INBO.

2008-2010 Sander Veraverbeke, Assessing fire burn severity using spaceborne spectral indices

CO-PROMOTOR, GHENT UNIVERSITY, BELGIUM

Funded by Ghent University Special Research Funds. Currently assistant professor @ VU.

PhD committee member

Assessment committe member or 12 PhD students:

- **Defended**: Robin Lombaert (KULeuven, 2013), Roberto Chavez (WUR, 2014), Junchao Shi (TUDelft, 2017), Eliakim Hamunyela (Wageningen University, 2017), Seyed Hosseini Aria (TUDelft, 2018), Jonathan Van Beek (KULeuven, 2012-2018), Vincent Smets (KULeuven, 2015-2020)
- In progress: , Björn Rombouts (KULeuven, 2016-now), Raymond Sellevold (TUDelft, 2017-now), Laura Muntjewerf (TUDelft, 2017-now), Paulo Negri Bernardino (KULeuven/Wageningen University, 2017-now), Sarah Wauthy (Université Libre de Bruxelles, 2018-now)

MSc/BSc supervision

MSc/BSc students as supervisor, co-promotor, promotor: Ruben Rommens (MSc KULeuven, 2003-2004), Miet Boonen, Matthias Tipps (MSc KULeuven, 2004-2005), Sofie Vanzegbroek (MSc KULeuven, 2005-2006), Kim Calders (MSc KULeuven, 2007-2008), Mattias Vanderoost, Gil Gram (MSc KULeuven/CEAZA, 2008-2009), Kirsten Bortels (MSc KULeuven/CEAZA, 2010-2011), Joost Neujens (BSc, KULeuven 2013-2014), Niels Tooth, Camille Christiansen, Joni Ceuppens, Katrien Wouters (MSc, KULeuven 2014-2015), Lander Van Tricht (BSc, KULeuven 2015-2016), Tobias Nauwelaers, Thomas Antheunis (MSc, KULeuven 2015-2016), Merve Günes (BSc & MSc, TU Delft 2016-2017/2019), Egli Michailidou (MSc, TU Delft 2017), Eva van der Kooij, Najoua Essaf, Tristan Keulemans (BSc, TUDelft, 2017), Maaike Izeboud (MSc, TUDelft, 2018), Annelies Voordendag (MSc, TUDelft, 2018), Ruben Egbers (MSc, TUDelft, 2018), Job Rosier (MSc, TUDelft, 2018), Weiran Li (MSc, TUDelft, 2018), Daniël Kersbergen (MSc, TUDelft, 2018), Daan Ris (BSc, TUDelft, 2018), Max Felius (BSc, TUDelft, 2018), Brendan Scherpenisse (MSc, TUDelft, 2018), Coco Antonissen (MSc, TUDelft, 2018), Dirk Van der Valk (MSc, TUDelft, 2018-2018), Kevin Groot (MSc, TUDelft, 2018-2019), Renske Free (BSc, TUDelft, 2018), Manish Kharagjitsing (MSc, TUDelft, 2019), Geerten van der Zalm (MSc, TUDelft, 2019), Thijs van Esch (MSc, TUDelft, 2019), Huub Ackermans (BSc, TUDelft, 2019), Nicael Jooste (MSc, TUDelft, 2019), Mirja Dooren (MSc, TUDelft, 2019), Fokke Dijkstra (MSc, TUDelft, 2019), Estella Fernandes (BSc, TUDelft, 2018), Veronika Tollenaar (MSc, TUDelft, 2019), Merve Gunes (MSc, TUDelft, 2020), Sophie de Roda Husman (MSc, TUDelft, 2020), Sofie Schijvenaars (BSc, TUDelft, 2020), Thirza Feenstra (BSc, TUDelft, 2020), Juliette Kool (MSc, TUDelft, 2021), Jelle Zitman (MSc, TUDelft, 2021), Michaja Van Capel (BSc, TUDelft, 2020), Daan van der Heide (MSc, TUDelft, 2021), Dylan Kreynen (MSc, TUDelft, 2021), Fleur Verschoor (MSc, TUDelft, 2021), Marije van Hell (MSc, TUDelft, 2021), Andre Vallendar (MSc, TUDelft, 2021), Bas Walraven (MSc, TUDelft, 2021),

Teaching

2020-2022 Applied Machine Learning [CS4305TU]

MSc TUDelft wide, Netherlands

Lecturer of convolutional neural networks

2020-2022 Remote Sensing & Big Data [CIE5603]

MSc Geoscience & Remote Sensing, TUDelft, Netherlands

Coordinator + responsible lecturer

2019-2022 **Bouwplaats - Remote Sensing** [CIE5603]

BSc Civil Engineering, TUDelft, Netherlands

Lecturer

201	19-2022	Climate impacts & Engineering [CIE5603] BSc Civil Engineering, TUDelft, Netherlands Lecturer
201	19-2022	Climate change: Science & ethics [CIE4510] MSc Civil Engineering and Geosciences, TUDelft, Netherlands Lecturer
201	18-2022	Cryosphere: remote sensing & modelling [CIE5603] MSc Geoscience & Remote Sensing, TUDelft, Netherlands Lecturer
201	18-2020	Big geo-data & machine learning [CIE5603 Advanced project on GRS] MSc Geoscience & Remote Sensing, TUDelft, Netherlands Coordinator + responsible lecturer
201	17-2022	Simulation & visualisation [CIE4604] MSc Geoscience & Remote Sensing, TUDelft, Netherlands Lecturer on Remote sensing data processing on big geo-data platforms
201	17-2022	Geodesy & Remote Sensing [CIE4606] MSc Geoscience & Remote Sensing, TUDelft, Netherlands Lecturer on radiative transfer modelling
201	16-2018	Ice, snow & climate change [CIE4602] MSc Geoscience & Remote Sensing, TUDelft, Netherlands Lecturer of remote sensing topics
201	16-2018	Introduction to geophysics & remote sensing [AESB1440] BSC APPLIED EARTH SCIENCES, TUDELFT, NETHERLANDS Lecturer of hyperspectral remote sensing topic
201	16-2018	Spaceflight assignment [AE3536] BSC MINOR SPACEFLIGHT, TUDELFT, NETHERLANDS Responsible for 3 assignments for 9 students
202	16-2018	Earth observation [CT3532] BSC MINOR SPACEFLIGHT, TUDELFT, NETHERLANDS Coordinator + responsible lecturer
201	14-2016	Remote sensing of the atmosphere MSC IN GEOGRAPHY / MSC IN EARTH OBSERVATION, KULEUVEN, BELGIUM Coordinator + responsible lecturer
202	14-2016	Remote sensing: climatological applications MSC IN BIOSCIENCE ENGINEERING, KULEUVEN, BELGIUM Guest lecture in Land Cover & Land Use monitoring (coordinator Prof. Somers B.)
202	14-2015	Remote sensing of the cryopshere MSC, UTRECHT UNIVERSITY, NETHERLANDS Guest lecture in <i>Physics of Remote Sensing</i> (coordinator Prof. Houweling S.)
201	11-2014	Temporal image analysis techniques MSC IN EARTH OBSERVATION, KULEUVEN, BELGIUM Guest lecture in Remote sensing of vegetative systems (coordinator Prof. Coppin P.)
200	05-2007	Trend analysis ADVANCED MSC IN EARTH OBSERVATION, KULEUVEN, BELGIUM Guest lecture in Vegetative canopy monitoring (coordinator Prof. Coppin P.)
200)2-2005	Geographical information systems [Practical sessions] MSC IN ENGINEERING OF FOREST & LAND MANAGEMENT, KULEUVEN, BELGIUM Practical sessions of Geographical Information Systems (coordinator Prof. Coppin P.(2002-2004), Prof. Van Orshoven J. (2005))

Grants & fellowships

Protect PROjecTing sEa-level rise : from iCe sheets to local implicaTions

FUNDED BY H2020 Project member on WP3

Ice shelves on Google Earth Engine State and fate of Antarctica's gatekeepers

Funded by Google

PΙ

NWO Groot State and fate of Antarctica's gatekeepers: a High-Resolution approach for ice Shelf

instability (HiRISE)
Funded by NWO GROOT

co-PI

NWO GO Damage Remote sensing of damage feedbacks and ice shelf instability in Antarctica

FUNDED BY NWO USER SUPPORT FOR SPACE RESEARCH

ΡI

NWO GO Firn Assessing firn processes from multi-source satellite data

FUNDED BY NWO USER SUPPORT FOR SPACE RESEARCH

Ы

Mass2Ant East Antarctic surface mass balance in the Anthropocene: observations and multi-

scale modelling

FUNDED BY BELSPO BRAIN / NWO

Co-PI and principal NWO-funded collaborator (4 years of PhD funding) on project of PI Goosse H. (UCL)

PV-MEP TPS Snow monitoring using the Proba-V Mission Exploitation Platform (PV-MEP) Third

Party Services

FUNDED BY ESA

Co-PI and responsible for snow monitoring work package

U-Turn Understanding turning points in dryland ecosystem functioning

Funded by Belspo Stereo III International partner

Black & bloom Microbial processes darken and accelerate the melting of the Greenland Ice Sheet

Funded by NERC

International collaborator on project of PI's Tranter M. and Bamber J. (University Bristol)

Benemelt Melting of Dronning Maud Land ice shelves: a combined modelling and observa-

tional approach
Funded by Inbev-Latour

Collaborator on project of PI Lenaerts J. (Utrecht University)

Aerocloud How do aerosols and clouds affect the East Antarctic climate?

Funded by Belspo Brain

Collaborator on project of PI Van Lipzig N. (KULeuven)

Aerocloud Antarctic precipitation, clouds and their interplay with aerosols: Combining ground-

based remote sensing and regional climate modeling

FUNDED BY FWO

Collaborator on project of PI Van Lipzig N. (KULeuven)

FWO post-doc fellowship Changes in surface properties of the Greenland ice sheet and their impact on climate

modeling

Principal investigator

Fondecyt Regular 2011 Modelling the current and future hydrological contribution of glaciers and seasonal

snow in semi arid mountain catchments

FUNDED BY FONDECYT (CHILE)

International collaborator on project of PI Kinnard C. (CEAZA)

Fondecyt Iniciacion 2009 The introduction of fusion techniques to improve the determination of snow cover

properties based on remote sensing imagery

Funded by Fondecyt (Chile)
Principal investigator

Planet Action Spatio-temporal changes in glacier surface facies and ablation morphology in the

Norte Chico region, Chile

FUNDED BY SPOT IMAGE Principal investigator

Ecoseg-SR/01/108 Development of a spatio-temporal segmentation algorithm for satellite time series

to monitor forest condition

Funded by Belspo Stereo II

Investigator on project of PI Prof. Coppin P. (KULeuven)

Glovex-SR/16/81 Assessment of vegetation regrowth by satellite remote sensing

Funded by Belspo Stereo II

Investigator on project of PI Prof. Coppin P. (KULeuven)

Scientific committees & reviews

Co-convernorship

EGU 2018 Remote sensing of the cryosphere [CR2.1]

EGU GENERAL ASSEMBLY 2018, VIENNA, AUSTRIA

Co-convenor

EGU 2017 Remote sensing of the cryosphere [CR2.1]

EGU GENERAL ASSEMBLY 2017, VIENNA, AUSTRIA

Convenor

EGU 2016 Remote sensing of the cryosphere [CR2.1]

EGU GENERAL ASSEMBLY 2016, VIENNA, AUSTRIA

Convenor

EGU 2015 Remote sensing of polar snow and ice [CR2.1]

EGU GENERAL ASSEMBLY 2015, VIENNA, AUSTRIA, 12 APRIL – 17 APRIL

Co-convenor

EGU 2014 Remote sensing of the cryosphere [CR2.1]

EGU GENERAL ASSEMBLY 2014, VIENNA, AUSTRIA, 28 APRIL – 2 MAY

Co-convenor

Multitemp 2007 Fourth International Workshop on the Analysis of Multitemporal Remote Sensing Images

MULTITEMP 2007, LEUVEN, BELGIUM, 18-20 JULY Member of the organisation committee

Reviews for

Nature Geoscience, The Cryosphere, Remote Sensing of Environment, Journal of Glaciology, Scientific Reports, IEEE Transactions on Geoscience and Remote Sensing, ISPRS Journal of Photogrammetry and Remote Sensing, Global Ecology and Biogeography, Photogrammetric Engineering & Remote Sensing, Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Remote Sensing, International Journal of Remote Sensing, Biogeosciences, Atmospheric Science Letters, Journal of Arid Environments, Nonlinear Processes in Geophysics, Geocarto International, International Journal of Geographical Information Science, Biosystems Engineering, EARSeL eProceedings, Sensors, Scientia Agricola, Ecological Modeling, Annals of Forest Science, NSF, Fondecyt, NWO, EUFAR

Editorial work

2018-now The Cryosphere

Editor

2018-2019 Remote Sensing Special Issue

"Remote Sensing of Glaciers at Global and Regional Scales"

GUEST EDITOR

Special issue website

Press & outreach

Earther

Press

2021 PIG weakening ■ Mashable 2021 **Icebergs** ■ Delta Antarctica smelt 2021 Eos Iceberg A68 2020 ONLINE PRESS BBC BEarther, Science times, Gizmodo, BRC BBC BEarther, Science times, Gizmodo, Yahoo Sea Ice Arctic 2020 VRT Nws Damage Amundsen Sea 2020 ONLINE PRESS 🖹 Washington Post, 🖹 CNN, 🖺 Guardian, 🖺 Der Spiegel, 🖹 SciTechDaily, 🖹 VRT Nws, 🖹 IFL Science, 🖹 Sputnik News, NY Post, Business Insider, Corriere, Nu.nl, Fox News, USA today, CTV, RTBF, Wired, 2020 Pine Island Glacier ONLINE PRESS BC news, Scientias 2019 Amery iceberg D28 BBC, NBC News, TIME, BBC, Euronews, Observador, https://videnskab.dk, expressen.se, hs.fi, ☐ IFLS, ☐ Daily Mail, ☐ LMalta, ☐ LZ.de Earth From Space 2019 TV show □ BBC Brunt ice shelf 2019 BBC, ☐ Fortune, ☐ Earther, ☐ Business Insider, ☐ Het Laatste Nieuws, ☐ Het Nieuwsblad, ☐ De Limburger, ☐ In.gr, Stuttgarter 2019 Climate change Volkskrant Pine Island Glacier 2019 Atlas Obscura 2018 Larsen C: square iceberg ■ Mashable, ■ VRT NWS, ■ iNews 2018 Pine Island Glacier: calving ☐ The Weather Channel, ☐ Mashable, ☐ Quartz, ☐ Scientific American, ☐ Live Science, ☐ Science Alert, ☐ Daily Beast, 🖹 The Daily Mail, etc 2018 Vavilov Ice Cap surge

2018 Helheim calving Earther 2018 Wat weten we van de Zuidpool? NOS Podcast #DeDag 2018 Fifteen Years of Change in the Arctic ONLINE PRESS Nasa Earth Observatory, Earth Sky, Washington Post Antarctic grounding lines ONLINE PRESS VRT NWS 2018 Penguin colonies on Antarctica ₱ De wereld vandaag @ VRT Radio 1, ₱ VRT Radio 2. 2018 Mass2Ant fieldwork NPO Radio 1 Pine Island Glacier calving 2017 RADIO, WRITTEN & ONLINE PRESS 🕮 Washington Post, 🖹 Nasa hyperwall, 🖺 NY Times, 🗎 The Verge, 🖺 Live Science, 🖹 Quartz, 🖺 USA Today, 🗎 Gizmodo, Daily Mail, Inverse, Euronews, Science Alert, The Weather Channel, Scientias, CBS News, ■ AOL, ■ International Business Times Greenland wildfire 2017 RADIO, WRITTEN & ONLINE PRESS BBC, BNew Scientist, The Guardian, The Independent Ecos, NBC News, Nasa Earth, Nasa Earth Blog, Climate Central Wildfire Today, Newsweek, HLN, Clean Technica, Euronews, Forbes, Grist, ■ Mother Jones, ■ NPR, ■ DW, ■ Huffington Post, ■ VRT Nieuws, ■ IFLS, ■ Gizmodo, ■ Popsci, ■ SD, ■ Scientias 2017 Asian glaciers ■ De Volkskrant, ■ De Morgen 2017 Larsen-C iceberg A68 Tv, radio, written & online press 💷 AD, 💷 De Morgen, 🗎 Climate Central, 🖵 VTM Nieuws, 🞐 BNR, 🗎 Mashable, 🗎 International Business Times, ☐ Independent, ☐ HLN, ☐ RT 2017 Peterman rift Tv, radio, written & online press □ NOS op 3, □ Van Gils & Gasten, □ Washington Post, □ Washington Post follow-up □ CNN, □ Volkskrant, □ Tech Times Live Science, IFL Science ABS News, Daily Mail, Mashable, Inhabitat, Business Insider, The Weather Network, NASA Earth Observatory, International Business Times, Phys.org, Paris Match, Science Times, Eath.com, PBS Newshour, Scientias 2016 Antarctic melt-albedo feedback TV, RADIO, WRITTEN & ONLINE PRESS For complete coverage check Altmetric with higlights in 🖵 VRT nieuws, 🖵 VTM journaal, 🖵 Karrewiet @ Ketnet, 🖵 RTL journaal, 🖢 De wereld vandaag @ VRT Radio, 🖢 VRT Radio nieuws, 💷 National Geographic, 🖹 New Scientist , 🖹 De Volkskrant , 🖹 Washington Post , 🖹 Le Soir, 🖹 Eos, 🖹 El Mundo, 🗎 The International Business Times, 🖹 Kennis van Nu NTR, , 🖹 Telegraaf , 🖹 De Morgen , 🖹 Japan Times, Der Spiegel, Focus.de, Algemeen Dagblad, NOS, Phys.org, IFL science, Business insider

2016 Lake Victoria Thunderstorms

Online press

For complete coverage check Altmetric with higlights in

Delta, Nasa Earth Observatory

October 8, 2021 12

, 🖹 Science alert, 🖹 Life science, 🖹 CBS News, 🖺 Climate Central, 🖺 Fox news, 🗎 Huffington Post

2016 Benemelt Antarctic field campaign in the news

RADIO & WRITTEN PRESS

□ ROB TV, De Ochtend @ VRT Radio 1, Nieuwe Feiten @ VRT Radio 1, De Wereld vandaag @ VRT Radio 1, Het Nieuwsblad, I De Standaard, I Rondom Leuven

2012 Interview for Science magazine on exceptional Greenland melt

WRITTEN & ONLINE PRESS

Science

Interactive websites

- 🖵 Meltwater on an East Antarctic ice shelf: www.tudelft.pageflow.io/benemelt
- 🖵 A tipping point for Greenland glaciers & ice caps: www.tudelft.pageflow.io/gics
- 🖵 North Greenland mass loss: www.tudelft.pageflow.io/north-gris
- Damaged ice shelves in Antarctica: https://tudelft.pageflow.io/pig-damage

Lectures & Outreach

18 Nov 2020 Mechelen aan zee: wat als de ijskappen smelten?

MECHELEN

Natuurpunt Warme winteravonden

10 Mar 2020 Antarctica voor de zeespiegel: een onzeker zwaargewicht

WAASMUNSTER Invited presentation

10 Oct 2019 Remote sensing of damage feedbacks and ice shelf instability in Antarctica

NSO Earth Observation, Science & Society Symposium

Invited presentation

8 Oct 2019 Antarctica voor de zeespiegel: een onzeker zwaargewicht

Mercatorkring

Keynote for port of Antwerp representatives

22 Apr 2019 Hoe verander je het klimaat?

URSULINEN MECHELEN

Presentation for 10 year old students

19 Feb 2019 What happens in Antarctica does not stay in Antarctica

Causerie @ Oxaco

Presentation for wider audience

7 Nov 2018 Assessing ice sheet changes from Copernicus satellites

COPERNICUS & POLAR REGIONS INDUSTRY WORKSHOP

Polar applications of Copernicus

16 Oct 2018 De fysica van Antarctica

NATUURKUNDE SYMPOSIUM: PHYSICS OF NATURE Keynote lecture [https://symposium.vvtp.tudelft.nl/]

12 Oct 2018 What happens in Antarctica does not stay in Antarctica

VIB Brain & Disease: PhD symposium

Keynote lecture

4 Oct 2018 Remote Sensing of anomalies and feedbacks using time series models

SATEX WORKSHOP ON DATA GUIDED APPRAISAL OF BIOSPHERE-CLIMATE INTERACTIONS

4 Jul 2018 Antarctica Report: science, no-fiction

Inema Lumen: Sizzling summer of space

Introduction of Antarctic science by the movie 'Europa Report'

13 May 2018 Hoe koud is het echt op Antarctica

I UDELFT JEUGD UNIVERSITEIT

Presentation for 8-12 year old students

21 Mar 2018 La Belgique et l'Antarctique, Impressions de Chercheurs

EVENING CONFERENCE ON ANTARCTIC RESEARCH Presentation for ice shelf research & experiences

Feb 2018 Antarctica voor beginners

Basis- & kleuterschool Ursulinen Introductie voor kleuter- & lagere school

Causerie @ Oxaco

Presentation for wider audience

31 Jan 2017 Ijsplaten van Antarctica in een veranderend klimaat

SLO NATUURWETENSCHAPPEN (GEOGRAPHY) KULEUVEN

Presentation for geografie leerkrachten

Ondernemershuis Mechelen

Presentation on 'Ice shelves on Antarctica'

Dec 2015 Antarctica voor beginners

KLEUTERSCHOOL URSULINEN Introductie voor kleuterschool

Skills

Languages

Dutch: Mother tongue

English: Proficient understanding, speaking, and writing. [♀ C2 level]
French: Very good understanding, good speaking, and intermediate writing

Spanish: Very good understanding and speaking, good writing

Field work management

Organisation of field campaigns in the Chilean Andes (2010, 2014) and coordinator and assistance in a scientific field campaign on the Roi Baudoin ice shelf (East-Antarctica, Jan 2016 & Dec 2017).