

CURRICULUM VITAE

Kristof Van Oost

Date and Place of Birth: 16 December 1975, Gent, Belgium
Earth & Life Institute, Université catholique de Louvain, Belgium
Phone: (+32) 10 472866; e-mail: kristof.vanoost@uclouvain.be

https://www.researchgate.net/profile/Kristof_Oost

ACADEMIC TRAINING

2003: Ph.D. Geography, Laboratory for Experimental Geomorphology, KULeuven, Belgium
1997: MSc Geography, KULeuven, Belgium

EMPLOYMENT

11/2007 - Professor of Physical Geography, FNRS Research Associate, Earth & Life Institute, UCL, Belgium.
09/2006 - 10/2007 Research fellow, Fund for Scientific Research, Flanders.
05/2006 - 08/2006 Postdoc researcher, K.U.Leuven.
06/2004 - 05/2006 Marie Curie fellow, Department of Geography, University of Exeter, UK.
10/1997 - 05/2004 Assistant, Doctoral fellow, Laboratory for Experimental Geomorphology, K.U.Leuven

RESEARCH

My research interests are in geomorphology and soil science with a particular focus on agricultural erosion and the role of sediment transport in carbon and nutrient cycling across landscapes. Much of my work involves modelling with an emphasis on geographical aspects and scale issues. My recent research seeks to develop new approaches that allow for an integrated study of geomorphology, hydrology and geochemistry in soil landscapes using environmental nuclides and carbon isotopes.

LEADERSHIP AND COORDINATION OF RESEARCH PROJECTS

Leader or co-leader of research projects funded by BELSPO, FSR, FNRS, EU-FP7. Executive editor of SOIL journal (since 2014) and associate editor of the Soil Science Society of America Journal (2010-2014).

TEACHING

Since 2007, experience with teaching master-level courses in geographical science at Université catholique de Louvain as well as supervision of 3 MSc projects, 5 PhD projects and 3 post-doc projects.

PUBLICATIONS

Over 70 international peer-reviewed publications (source SCOPUS) with + 2000 citations, h-index 27, 3 popular science articles.

SELECTED PUBLICATIONS

Van Oost, K., Govers, G., Heckrath, G., Quine, T.A., Oleson, J. and Merckx, R. (2005), Landscape-scale modeling of carbon cycling under the impact of soil redistribution. **Global Biogeochemical Cycles** 19 (4), GB4014, doi:10.1029/2005GB002471.
Quine, T.A. and Van Oost, K., 2007. Quantifying carbon sequestration as a result of soil erosion and deposition: retrospective assessment using caesium-137 and carbon inventories. **Global Change Biology**, 13(12): 2610-2625.
Van Oost, K., Quine, T.A. et al., 2007. The impact of agricultural soil erosion on the global carbon cycle. **Science**, 318(5850): 626-629.
Van Oost, K., & Bakker, M.M. (2011). Soil productivity and erosion. In Soil Ecology & Ecosystem Services (Eds D Wall, J Six). In Press. Oxford University Press.

Doetterl, S., Van Oost, K., Six, J. 2012. Towards constraining the magnitude of global agricultural sediment and soil organic carbon fluxes. **Earth Surface Processes and Landforms** 37 (6) , pp. 642-655.

Cerdan, O., Govers, G., Le Bissonnais, Y., Van Oost, K., Poesen, J., Saby, N., Gobin, A., (...), Dostal, T. 2010. Rates and spatial variations of soil erosion in Europe: A study based on erosion plot data. **Geomorphology** 122 (1-2) , pp. 167-177.

Recent Papers:

Wang Z, Van Oost, K., Govers G. 2015 Predicting the long-term fate of buried organic carbon in colluvial soils. **Global Biogeochemical Cycles**. DOI: [10.1002/2014GB004912](https://doi.org/10.1002/2014GB004912).

Wiaux F et al. 2014. Factors controlling soil organic carbon persistence along an eroding hillslope on the loess belt. **Soil Biology & Biochemistry** 77: 187-196. [10.1016/j.soilbio.2014.05.032](https://doi.org/10.1016/j.soilbio.2014.05.032)

[Van Oost et al., 2012, PNAS](#). Legacy of human-induced C erosion and burial on soil–atmosphere C exchange.

Doetter et al., 2012. Soil organic carbon assessment at high vertical resolution using closed-tube sampling and Vis-NIR spectroscopy. **SSSAJ** [10.2136/sssaj2012.0410n](https://doi.org/10.2136/sssaj2012.0410n)