

INDEPENDENT WORK HABITUALLY/ NOT HABITUALLY CARRIED OUT IN ACCORDANCE WITH ART. 2222 OF THE CIVIL CODE

Dear Prof. Olivier Dewitte

In consideration of the power of attorney conferred upon me the by the Council of the Civil Protection Center for the conferment of assignments for a seminar/conference/single teaching assignment/case study by resolution n 50 date 14/12/2023, with the present agreement, pursuant to Art 2222 and following articles of the Civil Code, the assignment to hold a seminar/conference/single teaching within the framework of the Agreement between the University of Florence – UNFESCO Chair and UNESCO office of Zimbabwe for the development of an introductory course on "Landslide Vulnerability Assessments, Monitoring and Forecasting" relating to the implementation of the "Biosphere Reserves as Observatories for Climate Change Adaptation in Southern Africa (Bc-Resilient)"

The seminar/conference/single teaching assignment will focus on the following topic

Case studies on landslide risk assessment, monitoring, and forecasting

The subject of the service performed will be strictly related to the assignment described above, excluding any extension to tasks not expressly provided for in the present agreement

The service shall be performed on (date) 29/12/2023 according to the established programme, with complete autonomy in defining technical methods and tools

The work has occasional nature and does not imply any clear or implicit agreement of continuity or renewal of the assignment To carry out the assignment you, the appointee, shall provide your own means and with the greatest organisational autonomy

The *ex lege* termination of the present contract is envisaged in the case of violation of the obligations deriving from the Code of Conduct of Decree 62 of 16 April 2013

option 1) The fee is established in relation to the value of the work carried out, in the amount believed appropriate of **€ 500,00** gross of all charges to the beneficiary's account, as well as (if agreed) the reimbursement of the following documented expenses (*), within the limits of the available budget

travel board accommodation

or option 2) The service is provided free of charge with only reimbursement of the following documented expenses (*) according to the availability of funds travel board accommodation

or option 3) The service is provided free of charge

The total expenditure will be paid from the budget of the Civil Protection Center, project FONDI_RESIDUI_CT, Coan advance analytical accounting n 17028 and will be paid upon presentation of a regular record of the services provided, with annexed declaration where you state that the employment relationship was in accordance with the terms agreed, or the invoice if the present assignment falls within your habitual profession Regarding the eligible expenditure ceilings, reference is made to the University's current regulation on reimbursement and expenses

With regard to the stamp duty affixed to the Services note for a seminar/conference/single teaching assignment/case study or on the invoice issued by the professional in total or partial exemption from VAT, the right of recourse against the University is excluded

For all matters not expressly provided for, reference is made to the Civil Code on self-employment (Book V, title III) and the current regulatory provisions issued by University

Florence, date 18/12/2023

The President



The assignee



* Expenses as well as fee are taxed pursuant to art. 25 D.P.R. no. 600 of 1973. See also resolution no.49/E of 11 July 2013 – taxation of expense reimbursements by the Italian Revenue Agency.

The undersigned, having read the conditions as set out above in the Director's/Supervisor's proposal,

declares

that he/she accepts the assignment conferred with the present agreement and

- he/she is not bound by a degree of consanguinity or affinity up to the fourth degree, with any Professor of the Department or with the Rector, the Director General or any member of the University Board of Directors pursuant to art. 18, paragraph 1 letter c) of Law 240/2010 and
- he/she is not the beneficiary of a scholarship or grant in the same period as the present contract (art. 8 current regulation of the University on scholarships and research grants (Rector's Decree 54/2013).
- he/she has provided a statutory declaration in lieu of an oath pursuant to art.15, c 1, lett. c) of Legislative decree no. 33/2013 and pursuant to art. 20, c 5 of Legislative decree no. 39/2013

The undersigned encloses his/her *curriculum vitae et studiorum* in European format.

The undersigned pledges to respect the obligations deriving from the Code of Conduct of Civil Servants according to art. 2 paragraph 3 of Presidential decree DPR 62/2013 implemented in the Code of Conduct of the University of Florence (Rector's Decree 98 ref. number 16906 of 8 February 2016) and is aware that violating the above mentioned obligations will entail the *ex lege* termination of the present contract agreement.

The undersigned encloses the form on "Personal details and information for tax and social security purposes for independent work assignments or occasional employment".

The undersigned acknowledges that their personal and sensitive information will be processed according to EU Regulation 2016/679 (GDPR) in relation to the protection of physical persons as regards processing their personal data. The undersigned also acknowledges that his/her curriculum vitae et studiorum and the declarations made for which, pursuant to current legislation there is the obligation of transparency, will be subject to publication on the University web page, "transparent administration" section.

The undersigned is also designated as being responsible for the personal information processed by the allocating facility, as determined by the Register of processing activities, and for which he/she receives appropriate instructions for data protection.

Florence, date 20/12/2023

The appointee



OLIVIER DEWITTE

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Belgian
9 July 1977



Olivier Dewitte, a geographer, is employed as a senior research scientist in the Department of Earth Sciences of the Royal Museum for Central Africa (RMCA, Tervuren, Belgium). With a holistic knowledge and understanding of processes and quantitative research methodologies in geomorphology, natural hazards and environmental changes, his research aims to better understand the changing landscapes of Africa and the hazards they pose. More specifically, his interests are mainly focused on landslide, soil erosion and flash flood related topics in sub-Saharan Africa. His research is framed around extensive field experience and addresses the challenges of disaster risk reduction in data-scarce context through capacity building and cooperation activities.

Work Experience & Education

2013 – present	Senior research scientist , Royal Museum for Central Africa, Belgium
2017 – 2018	Guest lecturer , KU Leuven, Belgium
2012 – 2013	Postdoctoral researcher , University of Liège, Belgium
2011 – 2012	Postdoctoral researcher , Ghent University, Belgium
2008 – 2011	Postdoctoral researcher , European Commission - Joint Research Centre, Italy
2006 – 2008	Postdoctoral researcher , University of Liège, Belgium
2004 – 2004	Visiting researcher (during PhD), Natural Resources Canada, Ottawa
2002 – 2006	Doctor of Science (Ph.D.) – Geography, University of Liège, Belgium
1999 – 2006	Research - teaching assistant , University of Liège, Belgium
1999 – 2001	M.Sc. in Cartography and Remote Sensing , ULiège, ULB, UCLouvain, Belgium
1995 – 1999	M.Sc. and B.Sc. (licence) in Geography , ULiège, Belgium

Research Projects Selection (out of 28 on natural hazard risks in Africa) (* as PI and co-PI; ++ as RMCA PI)

2024 – 2033	*G-HOLISTIC#2: Geo-Hydrological Disaster Risk and the associated natural resource degradation in sub-Saharan Africa: a transdisciplinary approach in densely-populated changing environments. BELSPO FED-tWIN Project. O. Dewitte is co-PI with UCLouvain; 832.000 EUR.
2024 – 2029	++EDITOR: Environmental hazards associated with mining activities in the tropics. Belgian Federal Scientific Policy (BELSPO). O. Dewitte as task leader. 3 partners; 1.003.028 EUR.
2024 – 2029	++HARISSA#2 : Natural Hazards, RISks and Society in Africa: developing knowledge and capacities. Belgian DGD. O. Dewitte is task leader. 10 partners; 1.250.000 EUR.
2023 – 2026	*LACTOSE: Slow-moving Landslides in Changing Tropical landscapes: dynamics and hillslope connectivity from Space. BELSPO. O. Dewitte is PI. 3 partners, with VUB; 277.880 EUR.
2022 – 2025	*GEOTROP: GEomorphic hazards and compound events in a changing TROPical East Africa. BELSPO. O. Dewitte is PI. 5 partners; 249.772 EUR.
2020 – 2030	++GuidANCE: Geohazards in African Cities: patterns, rates and sustainability in urban sprawling contexts. BELSPO FED-tWIN Project – O. Dewitte is partner with VUB; 937.000 EUR.
2020 – 2025	LAFHAZAV: Landslide and flood hazards and vulnerability in NW Rwanda: towards applicable land management and disaster risk reduction. ARES Research Project for Development (RPD). O. Dewitte is WP leader. 7 partners; 499.918 EUR.
2017 – 2022	*PASTECA: Historical aerial Photographs and Archives to assess Environmental Changes in Central Africa. BELSPO. O. Dewitte is PI. 3 partners; 597.560 EUR.
2017 – 2021	*MODUS: A Multi-sensor approach to characterize ground Displacements in Urban Sprawling contexts. BELSPO. O. Dewitte is PI. 4 partners; 204.907 EUR.

Supervision: 20 PhD students (11 ongoing) - 15 as (co-)supervisor since 2014; 3 postdoc guidances; 19 BSc. & MSc. students; 17 trainees/interns. **Selection of PhD Projects as (co-)supervisor:**

- 2020 (10)-present **Pascal Sibomana**. "Landslides distribution in the changing landscapes of the Northern and Western Provinces of Rwanda". Supervisors: O. Dewitte (RMCA), M. Vanmaercke (KU Leuven) and J. Nepomuscene Namugize (RP-IPRC Kigali).
- 2020 (07)-present **Axel Deijns**. "Geomorphic hazards and compound events in topical Africa". Supervisors: O. Dewitte (RMCA), F. Kervyn (RMCA) and W. Thiery (VUB).
- 2019 (10)- present **Violet Kanyiginya Twagira**. "Natural hazards and their interactions under the lens of citizen science: a multi-hazard assessment for the South Western region of Uganda". Supervisors: O. Dewitte (RMCA), R. Twongyirwe (MUST), M. Kervyn (VUB).
- 2017 (10)-2023 (02) **Jean-Claude Maki Mateso**. "Interactions between landslides, land use and management: a case study on the Rift flanks west of Lake Kivu (DR Congo)". Supervisors: O. Dewitte (RMCA) and C. Bielders (UCLouvain).
- 2017 (10)-2021 (10) **Arthur Depicker**. "Landslide in a changing tropical environment: the North Tanganyika – Lake Kivu Rift region, Africa". Supervisors: G. Govers (KU Leuven) and O. Dewitte (RMCA).
- 2016 (10)-2021 (03) **Antoine Dille**. "Remote sensing of slow-moving landslides in the tropics: natural and anthropogenic controls". Supervisors: O. Dewitte (RMCA), F. Kervyn (RMCA) and M. Kervyn (VUB).
- 2014 (12)- 2020 (03) **Elise Monsieurs**. "The potential of satellite rainfall estimates in assessing regional landslide landslide hazard in Central Africa". Supervisors: O. Dewitte (RMCA) and A. Demoulin (ULiège).

Selected Publications (out of 2 books and 57 SCI Journal Papers; Google Scholar Citations (3878; h-index 32))

- [1.] Depicker, A., Govers, G., Jacobs, L., Vanmaercke, M., Uwihirwe, J., Campforts, B., Kubwimana, D., Maki Mateso, J.-C., Mugaruka Bibentyo, T., Nahimana, L., Smets, B., **Dewitte, O.**, 2024. Mobilization rates of landslides in a changing tropical environment: 60-year record over a large region of the East African Rift. *Geomorphology* 454, 109156.
- [2.] Maki Mateso, J.-C., **Dewitte, O.**, Bielders, C., 2024. Living with landslides: Land use on unstable hillslopes in a rural tropical mountainous environment in DR Congo. *Science of the Total Environment*, 171624.
- [3.] Mugaruka Bibentyo, T., Dille, A., Depicker, A., Smets, B., Vanmaercke, M., Nzolang, C., Dewaele, S., **Dewitte, O.**, 2024. Landslides, bedrock incision and human-induced environmental changes in an extremely rapidly formed tropical river gorge. *Geomorphology* 449, 109046.
- [4.] Kanyiginya, V., Twongyirwe, R., Kagoro-Rugunda, G., Mubiru, D., Sekajugo, J., Mutyebera, R., Deijns, A.A.J., Kervyn, M., **Dewitte, O.**, 2023. Inventories of natural hazards in under-reported regions: a multi-approach insight from a tropical mountainous landscape. *African Geographical Review*.
- [5.] Dille, A., **Dewitte, O.**, Handwerker, A., d'Oreye, N., Derauw, D., Bamulezi Ganza, G., Ilombe Mawe, G., Michellier, C., Moeyersons, J., Monsieurs, E., Mugaruka Bibentyo, T., Samsonov, S., Smets, B., Kervyn, M., Kervyn, F., 2022. Acceleration of a large deep-seated tropical landslide due to urbanization feedbacks. *Nature Geoscience* 15, 1048-1055.
- [6.] Deijns, A.A.J., **Dewitte, O.**, Thiery, W., d'Oreye, N., Malet, J.-P., Kervyn, F., 2022. Timing landslide and flash flood events from SAR satellite: a new method illustrated in African cloud-covered tropical environments. *Natural Hazards and Earth System Sciences* 22, 3679 - 3700.
- [7.] Depicker, A., Jacobs, L., Mboga, N., Smets, B., Van Rompaey, A., Lennert, M., Wolff, E., Kervyn, F., Michellier, C., **Dewitte, O.**, Govers, G., 2021. Historical dynamics of landslide risk from population and forest-cover changes in the Kivu Rift. *Nature Sustainability* 4, 965-974.
- [8.] **Dewitte, O.**, Dille, A., Depicker, A., Kubwimana, D., Maki-Mateso, J.-C., Mugaruka Bibentyo, T., Uwihirwe, J., Monsieurs, E., 2021. Constraining landslide timing in a data-scarce context: from recent to very old processes in the tropical environment of the North Tanganyika-Kivu Rift region. *Landslides* 18, 161-177.
- [9.] Monsieurs, E., **Dewitte, O.**, Demoulin, A., 2019. A susceptibility-based rainfall threshold approach for landslide occurrence. *Natural Hazards and Earth System Sciences* 19, 775-789.
- [10.] Jacobs, L., Maes, J., Mertens, K., Sekajugo, J., Thiery, W., van Lipzig, N., Poesen, J., Kervyn, M., **Dewitte, O.**, 2016. Reconstruction of a flash flood event through a multi-hazard approach: focus on the Rwenzori Mountains, Uganda. *Natural Hazards* 84, 851-876.
- [11.] Jones, A., Breuning-Madsen, H., Brossard, M., Dampha, A., Deckers, J., **Dewitte, O.**, Gallali, T., Hallett, S., Jones, R., Kilasara, M., Le Roux, P., Micheli, E., Montanarella, L., Spaargaren, O., Thiombiano, L., Van Ranst, E., Yemefack, M., Zougmore, R., (eds.), 2013. *Soil Atlas of Africa*. European Commission, Publications Office of the European Union, Luxembourg. 176 pp. ISBN 978-92-79-26715-4, doi: 10.2788/52319