

## Curriculum Vitae

Name: C. Nolet MSc.  
 First Name: Corjan  
 Date of Birth: 26 December 1980  
 Nationality: Dutch  
 Main Disciplines: GIS, Remote Sensing, Unmanned Aerial Vehicles (UAVs), Photogrammetry, Climate Change Analysis.  
 Telephone: +31 (0) 317 460 050  
 Email: c.nolet@futurewater.nl  
 LinkedIn: <https://www.linkedin.com/in/corjannolet/>



## Key Qualifications

C. (Corjan) Nolet (MSc.) is trained as a physical geographer with emphasis on fluvial and aeolian coastal processes. Through his PhD research at Wageningen University he has gained considerable experience in remote sensing techniques and geospatial data analysis. Corjan is an experienced Unmanned Aerial Vehicle (UAV) pilot and is an expert in processing and interpreting UAV-derived data. His expertise's include photogrammetric reconstruction software, radiometric and geometric calibration and image classification using machine learning techniques. Corjan has developed and conducted multiple training courses on the use of Google Earth Engine for geospatial analysis and has worked as a researcher / consultant in various international projects. Working in these projects, Corjan has attained valuable skills related to statistical analysis of large spatial climate data sets and interpretation of climate change scenarios on future water resources.

## Educational Background

2013 – to date	PhD Candidate at Soil Physics and Land Management Group, Wageningen University, Wageningen, the Netherlands. Thesis subject: <i>How bio-geomorphic feedback drives coastal dune development along nourished coastlines</i>
2008 – 2011	MSc. International Land and Water Management, Wageningen University, Wageningen, the Netherlands. Major: Land Degradation and Development Minor: Geo-Information Science
2004 – 2008	BSc. International Land and Water Management, Wageningen University, Wageningen, the Netherlands.

## Professional Experience

2018 – to date	Remote Sensing, GIS and Climate Change Expert, FutureWater, Wageningen, The Netherlands
2013 – to date	PhD Candidate at Soil Physics and Land Management Group, Wageningen University, the Netherlands.
2009 - 2010	Teaching assistant & student recruitment, Wageningen University & Research, the Netherlands.
2008 - 2009	Chemical analyst soil and water contaminants. Eurofins Analytico B.V, Barneveld, the Netherlands

## Overseas Professional Experience

### *Resident (internship):*

- Bonaire, Dutch Antilles (3 months)

### *Non-resident assignments:*

- Australia, Cambodia, Georgia, Ghana, Iran, Kenya, Uzbekistan, Mozambique, Myanmar, Nepal, Netherlands, Tajikistan, Zimbabwe

## Selection of Assignments and Projects

2018 – 2022	Transforming Weather Water data into value-added Information services for sustainable Growth in Africa (TWIGA). Position: Researcher. Location: Ghana, Kenya. Client: Research and Innovation Action (H2020), European Commission
2019	Tailor-Made Training (TMT) on advanced cloud computing for water resources management in Myanmar with Google Earth Engine. Position: Trainer. Location: Myanmar. Client: Yangon Technological University, NUFFIC
2019	Rapid Assessments of Water Resources and Hydro-Ecological Environments - Climate Risk Screening Analysis. Position: Climate Change Specialist. Location: Cambodia. Client: Asian Development Bank
2018 - 2020	APSAN-Vale: Piloting innovations to increase the Water Productivity and Food security for Climate Resilient smallholder agriculture in the Zambezi valley of Mozambique. Position: UAV & GIS expert. Location: Mozambique. Client: Agência do Zambeze
2018 - 2019	SMART-WADI (SMART WATER Decisions for Iran). Position: UAV & GIS expert. Location: Iran. Client: Partners for Water, Netherlands government
2019	Tailor-Made Training (TMT) on use of open-source platforms for hydrological modelling of data-scarce regions in Nepal. Position: Google Earth Engine (GEE) expert. Location: Nepal. Client: Institute of Forestry (IOF) / Nuffic
2019	Climate Risk Assessment for East-West Highway (Shorapani-Argveta Section) Road Project. Position: Climate Change Specialist. Location: Georgia. Client: Asian Development Bank
2019	Climate Risk Assessment CAREC corridors 2, 3, and 5 (Obigarm–Nurobod) Road Project. Position: Climate Change Specialist. Location: Tajikistan. Client: Asian Development Bank
2019	Climate Risk and Vulnerability Assessment for North-South Corridor (Kvesheti-Kobi) Road Project. Position: Climate Change Specialist. Location: Georgia. Client: Asian Development Bank
2019	Climate Risk Assessment for Sustainable Energy Access - Distribution Network Modernization Program. Position: Climate Change Specialist. Location: Uzbekistan. Client: Asian Development Bank
2018	Enhancing irrigation water productivity and yields of pineapple farmers in Ghana. Position: UAV & GIS expert. Location: Ghana. Client: RVO, Netherlands government

## Language Skills

<i>Language</i>	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
English	Fluent	Fluent	Fluent
Dutch	Mother Tongue	Mother Tongue	Mother Tongue
French	Moderate	Moderate	Moderate
German	Moderate	Moderate	Moderate

## Computer Skills

Programming	: R, Python, JavaScript
GIS	: GDAL, QGIS, ArcGIS
Remote Sensing	: Erdas Imagine, ENVI, eCognition
Photogrammetry / Lidar	: Agisoft Photoscan/Metashape, LAStools

## Miscellaneous

- Certified UAV-pilot (BNUC-S Remotely Pilot Aircraft-License (RPA-L) for rotorcraft  $\leq 25$  kg)
- Co-developer and teacher GIS-course module Geometrical processing and analysis of UAV data
- Experienced in supervising BSc- and MSc-students for thesis research & reporting
- Experienced in providing computer assistance for hydrogeology & groundwater modelling
- Experienced in equipment usage and laboratory techniques related to geodetic survey, soil physical processes, hydrology, ecology and meteorology

## Publications

### *Peer-reviewed publications*

**Nolet, C.**, Gooren, H. Peters, P. and Riksen, M. (2018, in review). Continuous long-term measurements to characterize aeolian transport dynamics in the coastal environment. *Journal of Geophysical Research - Earth Surface*

**Nolet, C.** and Riksen, M.J.P.M. (2018, in review). Accommodation space indicates dune development potential along an urbanized and frequently nourished coastline. *Earth Surface Dynamics*

**Nolet, C.**, van Puijenbroek, M., Suomalainen, J., Limpens, J. and Riksen, M., 2017. UAV-imaging to model growth response of marram grass to sand burial: Implications for coastal dune development. *Aeolian Research*, 31, 50-61.

Goossens, D., **Nolet, C.**, Etyemezian, V., Duarte-Campos, L., Bakker, G., & Riksen, M. (2018). Field testing, comparison, and discussion of five aeolian sand transport measuring devices operating on different measuring principles. *Aeolian Research*, 32, 1-13.

van Puijenbroek, M. E., **Nolet, C.**, de Groot, A. V., Suomalainen, J. M., Riksen, M. J., Berendse, F., & Limpens, J. (2017). Exploring the contributions of vegetation and dune size to early dune development using unmanned aerial vehicle (UAV) imaging. *Biogeosciences*, 14(23), 5533.

**Nolet, C.**, Poortinga, A., Roosjen, P., Bartholomeus, H., & Ruessink, G. (2014). Measuring and modeling the effect of surface moisture on the spectral reflectance of coastal beach sand. *PloS one*, 9(11), e112151.

*Selection of conference proceedings or posters*

Van Opstal, J.D., A. Kaune, **C. Nolet**, J. van Til, J.E. Hunink. 2019. Flying Sensors for Smallholder Farming: An Innovative Technology for Water Productivity Assessment. Conference Paper 3rd World Irrigation Forum (WIF3), 1-7 September 2019, Bali, Indonesia.

**Nolet, C.** (2016). Mapping coastal bio-geomorphic dune development with UAV-imaging. Oral presentation at 9th International Conference on Aeolian Research, Mildura, Australia

**Nolet, C.**, van Puijenbroek, M., Suomalainen, J., Limpens, J. and Riksen, M. (2016). Dune development from above: How do bio-geomorphic feedbacks control dune morphology? Poster presentation at Annual conference by Netherlands Centre for Coastal Research, Ouddorp, Netherlands

**Nolet, C.** (2015). The Saltiphone: Aeolian mass flux estimation using the analogue output. Technical presentation at Desertland II Conference on Desertification and Land Degradation, Ghent, Belgium

*Selection of technical reports*

**Nolet, C.**, A.F. Lutz. 2019. TA-9755 GEO: East-West Highway (Shorapani-Argveta Section) Project, Georgia. Climate Risk and Vulnerability Assessment. FutureWater Report 189

**Nolet, C.**, A.F. Lutz. 2019. TA 9530-TAJ: CAREC corridors 2, 3, and 5 (Obigarm–Nurobod) Road Project, Tajikistan. Climate Risk and Vulnerability Assessment. FutureWater Report 187

Kaune, A., **C. Nolet**, A.F. Lutz. 2019. Glacio-hydrological Assessment for Hydropower, Mestiachala River, Georgia. FutureWater Report 188

**Nolet, C.**, A.F. Lutz. 2019. Climate Risk and Vulnerability Assessment North-South Corridor (Kvesheti-Kobi) Road Project, Georgia. FutureWater Report 182.