

Curriculum Vitae



Name: R. Koster MSc.
 First Name: Reinier
 Date of Birth: 15 February 1991
 Nationality: Dutch
 Main Disciplines: Hydrology, Water management, Hydrological modelling, Hydraulic modelling, Flood risk assessments, GIS.
 Telephone: +31 (0) 317 460 050
 Email: r.koster@futurewater.nl
 LinkedIn: nl.linkedin.com/in/reinierkoster/

Key Qualifications

Reinier Koster is a hydrologist with 5 years of experience in surface water and geohydrology. Reinier has advanced skills in hydraulic and hydrological modeling and GIS analysis using a variety of tools (e.g. SPHY, Sobek2 (1D, 1D-2D), Sobek3, WEAP, iMOD, Groundwater Vistas, ArcGIS, QGIS, R, Python). Countries of work experience include The Netherlands, Rwanda, Madagascar, China, Ghana, Madagascar, Angola and Egypt. Reinier is currently a consultant / researcher Hydrology at the FutureWater office in Wageningen.

Educational Background

2013 – 2016 MSc Hydrology and Water Resources, Wageningen University and Research Centre, Wageningen, The Netherlands
 2010 – 2013 BSc Soil, Water and Atmosphere, Wageningen University and Research Centre, Wageningen, The Netherlands

Professional Experience

2019 – present Consultant / researcher Hydrology, FutureWater, The Netherlands
 2016 – 2019 Specialist Surface Water Hydrology, Arcadis BV, The Netherlands

Overseas Professional Experience

As non-resident: Rwanda, Ghana, Egypt

Selection of Assignments and Projects

2021 Biophysical assessment of two catchments in Rwanda: Hydrological assessment of the Mukungwa and Akagera Lower catchment in Rwanda to optimize water allocation given future economic and climate change scenarios (client: IUCN)
 2020 - 2021 Tailor Made Training for Rwandan water professionals: Tailor made e-learning and onsite training on water resources management using WEAP and Google Earth Engine (client: Rwanda Water Resources Board (RWB))
 2020 – 2021 NCBA Clusa: Development of an online monitoring portal on water productivity and crop growth for small holder farmers in Mozambique (client: Agência do Zambeze (AdvZ))
 2020 – 2021 Apsan Vale: Development of an online monitoring portal on water productivity and crop growth for small holder farmers in Mozambique (client: Agência do Zambeze (AdvZ))
 2020 Flood Risk Assessment for the Li River in China.

2020	Flood Risk Assessment for future climate conditions of the northern part of Dutch Waterboard Vechtstromen's management area. (client: Waterboard Vechtstromen)
2020	HiHydroSoil v2.0: Development of a new HiHydroSoil dataset, a global dataset containing soil hydraulic properties.
2020	Hydrological assessment of a catchment in Georgia to assess the suitability of the development of a small hydropower plant in the Luhkra river in Georgia (client: EKOHYDROPLIUSI)
2019	MIT Climate Risk Assessment Tool for Small Hydropower (client: RVO)
2019	Land use planning for enhanced resilience of landscapes (LAUREL) in Madagascar using SPHY (client: World Bank)
2019	Flood risk assessment of the northern part of Dutch Waterboard Vechtstromen's management area. (client: Waterboard Vechtstromen)
2019	Secondment at Dutch Waterboard Rivierenland: improving the quality of geodata for flood risk and hydraulic modelling (client: Waterboard Rivierenland)
2018 – 2019	Multiple flood risk assessments for different waterboard and municipalities in the Netherlands
2016 – 2018	Multiple (geo)hydrological projects for waterboards, provinces and industrial companies in the Netherlands.
2016	Secondment at Waterboard Drents Overijsselse Delta: Supporting decisionmakers by answering multiple (geo)hydrological questions (client: Waterboard Drents Overijsselse Delta).
2016	Improving the SIWARE model for Egypt's irrigated Nile-delta. Alterra, The Netherlands
2015 – 2016	MSc. Thesis: 'Water demand forecasting in the Sisili-Kulpawn basin; using the water balance approach and soil moisture data to predict irrigation requirements.' IWAD Ghana, Ghana / The Netherlands
2015	MSc. Internship, 'Transboundary assessment of discharge and water level data and measuring techniques to improve calibration and validation of FEWS Vecht'. Royal HaskoningDHV / Waterboard Vechtstromen, The Netherlands

Selection of Technical Reports and Other Publications

- Kaune, A., **R. Koster**. 2020. Land suitability service in Angola: Planting options for closing the yield gaps
- Kaune, A., **R. Koster**. 2020. Supporting decisions on irrigation and fertilizer application in large farms in Angola
- **Koster, R.** A. Kaune. 2020. Hydrological Assessment for Hydropower, Likhra River, Georgia. FutureWater Report 210
- Simons, G.W.H., **R. Koster**, P. Droogers. 2020. HiHydroSoil v2.0 - A high resolution soil map of global hydraulic properties. FutureWater Report 213.
- **Koster, R.**, G.W.H. Simons. 2020. Evaluation of PAGDP plans in Madagascar with the LANDSIM-R prototype. FutureWater Report 209.
- **Koster, R.**, P. Droogers. 2019. Haalbaarheid van 'small-hydro climate risk assessment tool'. FutureWater Report 193.

Language Skills

Dutch:	Mother tongue
English:	Fluent in writing and speech
German:	Basic to Moderate in writing and speech

Computer Skills

Simulation models:	SPHY, Sobek 2 (1D, 1D-2D), Sobek 3, WEAP, iMOD, Menyanthes (proficient),
--------------------	--

Programming:	Groundwater Vistas (basic) R (advanced), Python (proficient), VBA (basic)
GIS:	ArcGIS, QGIS (advanced)
Standard software:	MS Office (advanced)
Others:	Wordpress (proficient)