

# Curriculum Vitae

Name	J.E. Brandsma
First Name	Jaïrus
Date of Birth	1 May 1987
Nationality	Dutch
Main Disciplines	Integrated water resource management, Irrigation, drinking water, Geo-informatics.
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## Key Qualifications

Jaïrus Brandsma is a practical skilled international water manager. His main expertises are integrated water resource management, irrigation, and urban and rural drinking water. Jaïrus has carried out several projects in Africa, where he lived in Kenya and Malawi. Among these projects is a research to improve the design of the sand-storage dams in Kitui region, Kenya and a study for the Blantyre water board to reduce non revenue water. Furthermore, he designed several irrigation systems in, for example, Indonesia and Kenya. Trough his GIS knowledge and fieldwork the scientifically based researches will always result in a practical solution for a water management problem.

## Educational background

2007 – 2011	University of applied science, Larenstein : International land and water management. Minor at Wageningen university: Integrated water management, irrigation and philosophy.
2000 – 2006	Pre-university education. Specialization in health and natural science.

## Professional Experience

09-2011 – Present	Hydrologist, data analyst, water modeler at FutureWater
02-2011 – 07-2011	Trainee at FutureWater, Wageningen. Final Thesis on: Irrigation potential assessment in the southern Nile basin.
04-2010 – 08-2010	Research trainee, Vitens-Evides international, Blantyre, Malawi. Research on all aspects of 'non-revenue water' as a part of a four year service contract with the Blantyre water board.
09-2009 – 11-2009	Research trainee, Kenya, Kitui. Ex-change/ Sasol Impact evaluation of sand storage dams, water management and social-economic impacts.
2007 – 2011	Member 'educational commission' Land and water-management, Van Hall Larenstein.
2009 – 2010	Board Student association 'Quercus'. Financial security

## Overseas Professional Experience

### *Resident:*

Burundi and Rwanda: FutureWater, Irrigation Potential project. Assess potential irrigation sites in these countries, and organize that potential irrigation sites in DR Congo, Kenya, South Sudan, Tanzania and Uganda are assessed.

Malawi: Internship at Vitens Evides International for the Blantyre water board. Locate, measure, map and analyze the non-revenue water.

Kenya: Internship Ex-change/ Sasol.

## Selection of Assignments and Projects

2012	World soil map. In cooperation with Wageningen University (WUR) and the "Vrije Universiteit" (VU). Based on the Harmonized World Soil Database (HWSD) a soil degradation map is developed, which shows the human induced soil degradation.
2012	Climate Adaptive Drainage: Research and Development. This project is financed by the Dutch Ministry and focuses on Small Business and Innovative Research (SBIR). This project aims at developing an innovative drainage system, which prevents peak flows during periods of rainfall excess as a result of climate change. The innovative drainage system can be remotely

controlled and can also be used by the farmer in order to infiltrate water during periods of water shortage.

- 2012 Q-fever: study the impact of environmental factors such as vegetation density and soil moisture on the distribution of *Coxiella burnetii*.
- 2011 Irrigation Potential: assess the irrigation potential for the seven southern Nile countries. The project aims to assess in a uniform way which places are most suitable for irrigation, taking all irrigation affecting factors into account. Detailed studies on irrigation development are carried out for 5 focal areas per country.

### **Language Skills**

Dutch: mother tongue  
English: fluent in writing and speech  
French: moderate  
German: Advanced

### **Computer Skills**

GIS/RS: ArcView, ArcGIS.  
Standard software: MS Office, Adobe Photoshop  
Others: Autocad