

## Curriculum Vitae

Name: N. Cárdenas MSc.  
 First Name: Natalia  
 Date of Birth: 8 November 1994  
 Nationality: Colombian  
 Main Disciplines: Water management, Remote sensing for agriculture  
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### Key Qualifications

Natalia Cárdenas is a Trainee Agro-hydrologist focused on sustainable water management for agriculture, using precision farming practices such as remote sensing. With experience in the design, planning and execution of irrigation projects. She holds a BSc. in Agricultural Engineering and an MSc. in Water Science and Engineering with a specialization in Land and Water Development for Food Security in The Netherlands. Her academic and professional experience gave her a different perspective and thought oriented to finding solutions and making decisions. Natalia is committed to contribute to agricultural business and food security development, ensuring environmental sustainability.

### Educational Background

2019 – 2021 MSc. Water Science and Engineering with specialization in Land and Water Development for Food Security, IHE Delft Institute for Water Education  
 Thesis: Data fusion approach to develop very high-resolution TIR images combining data from Sentinel-2 and Sentinel-3 missions in Koga irrigation scheme, Ethiopia  
  
 2013 – 2018 BSc. Agricultural Engineering, Universidad Nacional de Colombia  
 Thesis: Optimization of the use of water resources in short-cycle crops located in the Bogotá Savannah through the determination of water stress indexes using multispectral imaging.

### Professional Experience

2021 – present Trainee Agro-hydrologist, FutureWater, Wageningen, The Netherlands  
 2018 – 2019 Project Engineer Junior, ASIAC

### Overseas Experience

As resident: The Netherlands

### Selection of Assignments and Projects

2021 – present Support on a business plan elaboration and technical analysis that supports feasibility studies of the Frost Fruit Project (Ministry of Economic Affairs and Climate of the Netherlands, Delft University of Technology, FutureWater)

2020 – present	WAPLUGIN development. QGIS plugin development as an application of the FAO platform, WaPOR.
2020 – 2021	MSc. Thesis' Data fusion approach to develop very high-resolution TIR images combining data from Sentinel-2 and Sentinel-3 missions in Koga irrigation scheme, Ethiopia.'
2019	Elaborating on plans that support feasibility studies and detailed design of the irrigation districts in the municipality of Fusagasugá – Cundinamarca, Colombia. (Secretary of agriculture and economic development of Cundinamarca, Association of Agricultural Engineers of Colombia – ASIAC)
2018	Support studies and necessary designs to develop the construction and/or rehabilitation of the small-scale irrigation districts in Cundinamarca, Boyacá, Meta and Quindío, Colombia. (National University of Colombia – Medellín, Association of Agricultural Engineers of Colombia – ASIAC)
2018	BSc. Thesis' Optimization of the use of water resources in short-cycle crops located in the Bogotá Savannah through the determination of water stress indexes using multispectral imaging.'
2017	Member of the research group related to evaluating innovative technologies to manage the mango, orange, and mandarin crops, in productive areas in Cundinamarca. (National University of Colombia – Bogotá)

## Language Skills

Spanish:	Mother's tongue
English:	Fluent in writing and speech
Italian:	Fluent

## Computer Skills

GIS:	QGIS
Design:	AutoCAD
Standard software:	MS Office