

## EDUCATION

PhD candidate Hydrothermal processing (ongoing)

2021-2024

Aarhus University

MSc Environmental technologies and engineering, 2021

2019 - 2021

University of Chemistry and Technology | Prague, Czech Republic

IHE Delft Institute for Water Education | Delft, Netherlands

Ghent University | Ghent, Belgium

Thesis: Fate of biomass inorganic elements during hydrothermal carbonization (HTC) – towards process optimization for added-value recovery of both biochar and liquid products.

Emphasis on Ecotechnologies.

Bachelor in Civil Engineering, 2017

2012 - 2017

University of Cartagena

Thesis: Slow Sand Filters for drinking water treatment in rural areas: San Jose de Playon, Colombia.

Honours: Award of excellence, 2017. Winner of "Innovation and Impact Trip" to Purdue University, 2016

## WORK EXPERIENCE

Airscan Indoor air quality intern

July 2020–August 2020

Monitored and assessed the indoor air quality at CITY2 shopping centre located in the centre of Brussels within the framework of the covid-19 pandemics.

Hidroconsultores Limited Assistant Engineer

September 2017–July 2018

Supported the design of hydraulic and sanitary projects, focusing on hydraulic structures in Cartagena's oil refinery.

Estimated costs and quantities for the construction of the new drainage and sewage system of the north coast of Cartagena.

Ecopetrol S.A. Civil Engineer Intern

January 2017–July 2017

Supervised the civil and metallurgical maintenance contract of Cartagena's oil refinery.

Coordinated the contractors' activities in the refinery and handout of their work to Ecopetrol (operator of the refinery).

Designed bus stop structures to improve the internal transportation system by using surplus materials from the refinery's expansion.

Environmental Modelling Research Group Research Intern

January 2016–November 2016

Researched rainfall thresholds that trigger landslides and the incidence of climate change in sea level rise.

## SKILLS

Office 100%

AutoCad 90%

CYPE. ETABS 60%

MINITAB. Statistics 70%

QGIS 80%

## LANGUAGES

Spanish 100%

English 99%

French 80%

Czech 10%

## HOBBIES

Supervise construction works

Inline/ice skating

Play guitar

Painting