



Edna Jessica Wilches
Kochinski

Date of birth: [REDACTED]

Nationality: [REDACTED]

Gender: Female

CONTACT

[REDACTED]
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(Home)

[REDACTED]

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(+ [REDACTED])

[REDACTED]
[REDACTED]

EDUCATION AND TRAINING

01/2023 – 04/2024 Delft, Netherlands

Master of Science in Water Science and Engineering with specialisation in Hydroinformatics: Modelling and Information Systems for Water Management IHE Delft
Institute for Water Education

01/2023 – 06/2024 Bogota,D.C, Colombia

Master of Science in Civil Engineering with specialisation in Hydraulic Resources and Environment Colombian School of Engineering Julio Garavito

01/2016 – 04/2020 Bogota,D.C, Colombia

Bachelor of Science in Environmental Engineering University of Los Andes

01/2016 – 04/2020 Bogota,D.C, Colombia

Complementary studies in Biology Universidad de Los Andes

WORK EXPERIENCE

01/2020 – 01/2023 Bogota D.C, Colombia

Environmental engineer Hidrologia, Geologia, Ambiental - HGA SAS

Environmental Impact Studies on hydrology, hydrogeology, hydraulics and water quality.
Hydraulic and hydrologic modelling.
Data collection, interpretation and analysis of geoelectric studies (vertical electric sounding, electric tomography and well logging) for groundwater prospecting in Colombia.
Geotechnical instrumentation and monitoring.
Map development in ArcGis.

DIGITAL SKILLS

HEC-RAS | HEC-HMS | SWMM (Basic) | MIKE + (Basic) | MIKE URBAN | Python | Visual Basic | ArcGis | QGis | AQUASIM | QUAL2K | IPI2Win

LANGUAGE SKILLS

MOTHER TONGUE(S): Spanish | English

PROJECTS

02/2021 – 12/2023

Implemetation of geotechnical instrumentation over aqueduct network pipe - Tibitoc Usaquén

Installation of geotechnical instrumentation for the monitoring of physical parameters leading to stress and soil deformations on the main pipeline of the aqueduct network, due to the construction of the AV. Laureano Gómez (AK 9) from Av. San José (AC 170) to street 193, in the north of Bogotá.

04/2020

Environmental Impact Study for Solar Photovoltaic and Electrical Energy Transmission Projects in Galapa, Atlántico, Colombia

Hydrological and hydraulic assessment to build a solar farm in Galápa, Atlantico.
Flood mapping and design of a simple drainage system
Use of HEC-HMS,HEC-RAS and ArcGIS

2021 – 2022

Study on the San Juan de Uraba Basin, Uraba Colombia

Rainfall Runoff modelling of the San Juan de Uraba Basin
Flood mappping, elevation mapping, geological unit mapping, hydrogeological unit mapping in ArcGIS

Geophysical data processing

RESEARCH PROJECTS

12/2019

Optimization of the evaluation of native species and enhanced substrates in green walls for nutrient treatment in the treatment of greywater in Bogotá, DC

Undergraduate Thesis Project

04/2024

Assessment of mine spillage effects on receiving waters: hydrodynamic and water quality studies on Bacanuchi River, Mexico

International Masters Program Research Project

Python sensitivity analysis on dam discharge, hydrodynamic and water quality modelling of the Bacanuchi River using HEC-RAS and AQUASIM.

HOBBIES AND INTERESTS

PADI Advanced Open Water Diver
