



Overview

I see myself as a highly motivated and hardworking woman with an eager to learn and increase my skills in the environmental engineering field.

In my daily work I deal with hydrological issues, mostly related with the consequences of climate change.

Specifically, I am active in the field of floods and droughts, thus the economic and engineering methodologies to address these type of topics.

Andrea Estefania Cordero Mera

Civil and Environmental Engineer

- Ecuadorian 23/07/1992
- Bologna, Italy 39 3494953461
- andreacorderomera@gmail.com

Courses and Certificates

- PEST Model – Independent Parameter Estimation and Uncertainty Analysis
 03/2023
 Viterbo, Italy
- Nature-based Solutions for Disaster and Climate Resilience
 05/2022
 Online
- WRHC 2021 Droughts, Floods and their emerging challenges.
 06/2021
 Online
- Tsunamis and Storm Surges: Introduction to Coastal Disasters.
 02/2019
 WASEDA University.
- “Barranquilla: its slopes, pavements, roads and urban mobility”.
 2015
 Barranquilla, Colombia.
- Academic Exchange Program
 Chinese Course
 07/2010 – 07/2011
Pekin, China.

Experience

- Research fellow 01/2024 – 12/2024
University of Bologna – SandBoil Project
Bologna, Italy.
 - Business Plan and LCA.
- Specialist in Hydrological Modelling 03/2022 – 12/2023
Hydrology and Hydraulic Consultant PROGEA.
 Bologna, Italy.
 - Hydrological modelling of Italian basins.
 - Real time flood forecasting
- International Project Manager 06/2018 – 07/2019
Design and Implementation of Environmental Monitoring Systems SensorVital.
 Cuenca, Ecuador. Lima, Peru. La Paz, Bolivia.
 - Management of engineering international projects in which requires implementation of instrumentation for environmental monitoring. English – Spanish translator.
 - Civil design in monitoring projects and hydrological gauging campaigns in flood prevention projects.
 - International business leader, in charge of La Paz branch.
- Junior Water/Wastewater Engineer 03/2017 - 10/2017
Sewer and Drinking water Consultant CINPRODIS.
 Cuenca, Ecuador.
 - Assistant hydrosanitary, sewer networks and wastewater treatment plant designer and draftsman.
 - Unit costs and budgets.

Education

- MSc. in Environmental Engineering 09/2019 – 12/2021
110 with honors/110
 University of Bologna. Bologna, Italy.

Languages

- Spanish
- English
- Italian
- Chinese

- Flood and Drought Risk Management
- Advanced Hydrosystems
- Business plan creation
- Geotechnical Engineering
- Life Cycle Assessment (LCA)
- Numerical Methods

Interpersonal Skills

- Organized
- Enthusiastic
- High capacity of adaptation and learn from new environments.
- High self initiative and independent
- Excellent communication and intercultural skills
- Excellent working in teams
- Leadership and goal orientation

IT Skills

Knowledge level 

- MS office
- Windows environment

Knowledge level 

- RStudio
- QGIS
- AutoCAD
- TOPKAPI
- HMS

Knowledge level 

- MATLAB
- Phyton
- SimaPRO LCA

Hobbies

- Travel
- Languages
- Dancing
- Hiking

Areas of interest

- Climate Change Adaptation
- Natural Disasters monitoring
- Risk Management
- Sustainable urban development
- Floods and Droughts analysis
- Hydrology
- Environmental
- Statistics


Education

Climate Change Adaptation Climate KIC  09/2019 – 12/2021

 European Union.

- Strategies and action plans in response to high impact climate challenges.
- Systems Innovation.
- Communicate about change making and climate change solutions to mixed audiences
- Business Plan

Sp. in Disaster Risk Management  01/2018 – 06/2018

 Consejo Iberoamericano Ambiental. Lima, Peru.

- Natural Disasters monitoring
- Risk Management
- Resilience Strategies

BSc. in Civil Engineering  09/2011 – 04/2017

 University of Cuenca.

- Hydrology
- Hydrogeology
- Environmental

Student Mobility  02/2015– 07/2015

 Universidad de la Costa. Barranquilla, Colombia.


Training

Internship and Thesis abroad  03/2021 – 09/2021

 University of Freiburg.


- Information gathering and statistics develop for the project “Reservoir influences on Drought and Flood Characteristics in the Piedmont Region, Italy”

Internship  08/2016 – 09/2016
CELEC EP (Electricity Corporation of Ecuador)

 Cuenca, Ecuador.

- Information gathering and data on field for the project “Hydrological Characterization of the macro landslide Guarumales”


Internship  04/2014 – 05/2014
PROMAS (Water and Soil Management Program)

 Cuenca, Ecuador.

- Vehicular traffic quantification for the implementation of the PACALORI project (water supply and control project for the province of Los Rios in Ecuador).


Volunteer Experience


- Volunteer Program GIRA MUNDO, Nosso Lar ONG.
Teacher of Math, Computer Science, English and Spanish to low - income children.

 07/2016 – 09/2016

 Sao Carlos, Brazil.

- Volunteer Program Cecilia Rivadeneira Foundation.
Team Leader of the program “Juega conmigo” which mainly consist in spend time in the hospital with children who suffer from cancer.

 09/2016 – 09/2017

 Cuenca, Ecuador.