

DANIELA ESTEFANÍA FLOR CEVALLOS

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Key Qualifications:

More than 10 years of professional experience working in issues related to environmental management, water resources, climate change and research in both the public and private sectors. In the area of sustainability, I have constructed policies, strategies, and environmental key performance indicators related to Circular Economy, Climate Change and Water Management. Currently I am a professor at USFQ (University San Francisco de Quito) in Mass and Energy Balance, Capstone Project and Fluid Mechanics courses. I have participated in an International Capstone Project with the University of South Alabama, supervising a project. I have experience in research that involves working with multiple stakeholders (such as Government, NGOs, private sector, communities) and modelling social and technical variables using a systems dynamics approach. I am a partner of a consulting firm for 8 years working in the quantification of emissions and removals of GHG in natural ecosystems such as wetlands and also many different industries such as airports, food, banks, among others. Also, I coordinated a research for the quantification of microplastics in rivers, oceans and food in Ecuador.

One of my latest relevant work experiences, is the construction of the Ecuador Carbon Zero Mechanism. This was a project funded by UNDP and GIZ, and I also worked with REDD+, the National Ministry of Environment and Water, FIAS (private fund), NGOs and other relevant stakeholders. This mechanism focuses on engaging the private and public sector, to implement strategies that promote the reduction and removal of GHG emissions through conservation and restoration initiatives. This project involved: policy analysis, NDC reporting analysis, construction of the mechanism, validation of the mechanism with the stakeholders and articulation of the mechanism with the different strategies in the region.

Education:

University College London

London- UK, 2015 – 2016

MSc Environmental Systems Engineering (*Grade: Distinction, Mark:74.75*)

Dissertation: *A system dynamic approach for water efficiency in households in London (Grade: Distinction, Mark:77)*

Chevening Scholar 2015

Universidad San Francisco de Quito

Ecuador, 2007 – 2012

Environmental Engineer (*Grade: 3.73/4, Recognition: Magna Cum Laude*)

Courses:

University of Michigan (Coursera)

2020

Python Data Structures

University of Michigan (Coursera)

2020

Programming for everybody (getting started with python)

AWS (Alliance for Water Stewardship)

Fundamentals, Advanced and Specialist Module

Airport Carbon Accreditation Verifier

2017

Harvard Center for International Development

2017

The Practice of PDIA: Adapting to Climate Change

Delft X

Online, 2015

Circular Economy

Banco Interamericano de Desarrollo (BID)

Online, 2015

Sustainable cities

SGS

Ecuador, 2014

Training Program greenhouse gas and carbon footprint

Water Footprint Network

Ecuador, 2014

Workshop Water Footprint Assessment

UNESCO People Friendship University

Moscow-Russia, 2013

Course of Energy Efficiency

[*UNESCO Scholarship*](#)

Deloitte

Ecuador, 2013

Greenhouse gas accounting and reporting for organizations

Innovation and creativity

Foundations of Finance

Fundamentals of Marketing

University of Minnesota

Online, 2013

Sustainability of food systems: a global perspective of its cycle

Fedeta

Ecuador, 2013

Workshop on Renewable Energy

Ministry of Environment

Ecuador, 2013

Certified as an environmental consultant

Cotecna

Ecuador, 2013

ISO 26000: 2010

Universidad San Francisco de Quito

Ecuador, 2013

Groundwater protection and Influence of Urban Cities and Roads

Universidad San Francisco de Quito

Ecuador, 2013

Assessment of groundwater quality: Methods and radioisotope tracer

Employment Record:

Universidad San Francisco de Quito (2017 – Present) *Ecuador*

Professor and Researcher in the Environmental Engineering Programme

- **Courses:** Capstone Project, Energy and Mass Balance, Fundamentals of Environmental Engineering, Fluid Dynamics, Wastewater treatment.
- **Academic administration:** Implementation of the ABET Accreditation.
- **Research:**
 - Quantification of Microplastics in food and water bodies in Ecuador
 - GHG and primary pollutants emissions inventory and spatial analysis
 - Atmospheric-Emission Model for Education & Sustainable Decision for Galápagos Islands: A simulation model accessible to the public, that will provide valuable information for awareness and decision making through a participatory approach based on a bottom-up policy methodology where stakeholders are part of the decision-making instead of a top-down methodology where government makes a decision and scales it down.
 - Life cycle assessment, analysis of socio-economic and political variables in the main industrial sectors in Ecuador to determine the Circular Economy Strategy. Project with GIZ and the Ministry of Production
 - Analysis of the regulations and opportunities for the improvement of plastic policies in the Pacific Alliance and Ecuador
- **Grants:**
 - **WWF:** Funding for the construction of a methodology for the quantification of food waste in industries, restaurants and hotels. And the implementation of the methodology in 3 enterprises: KFC, Ordeño, GM OBB
 - **Fondo 1+1 Cedia- República del Cacao:** Funding for the quantification of GHG emissions and removals in the chocolate value chain. Also funding for the analysis of the circularity of one chocolate product.
 - **Fondo 1+1 Cedia- DANEC:** Funding for creating an upcycled food product prototype.

Green Wise (2014 – Present) *Ecuador*

Senior consultant

Development of proposals and submission of bids. Also, project manager of:

- Water and carbon footprint measurements for green products and companies
- Construction of guides and tools for reporting environmental indicators for the industry sector (water, energy, emissions, waste, among others)
- Development of sustainability report and materiality assessment
- Strategies for reducing the environmental impacts of companies
- Environmental audits
- Environmental management plans
- Strategies and training in hazardous waste management
- Stakeholder engagement plans

- Construction of the National Carbon Neutral Mechanism.
- Analysis of GHG emissions removals in highlands ecosystems

Principal clients: Corporación Favorita, Quiport, General Motors, Diners Clubs, Ministry of Education (Ecuador), WWF, La Fabril, Propandina, Automotores y Anexos.

University College London (December 2015 –April 2016) *London*

Collaborative project with ARUP: Development of a methodology for conducting water audits in office buildings and performing a water audit in ARUP’s office buildings.

Deloitte & Touche (2012 – 2014) *Ecuador*

Consultant

Responsible of several consultancy projects concerning: dialogues with stakeholders, preparation and verification of sustainability reports, codes of ethics and codes of conduct and sustainability planning strategies.

In charge of creating a guide and a tool for reporting environmental sustainability indicators (concerning materials, effluents, waste, emissions, etc) for General Motors (Ecuador) according to the Global Reporting Initiative.

Main clients: Repsol, Pronaca, Yanbal, Nestlé and Produbanco.

Private Project- René Parra (2012 – 2012) *Ecuador*

Consultant

Collection, processing and modelling of plant emissions data in various sectors of Ecuador and pollutant emissions in several refineries in Ecuador

Universidad San Francisco de Quito (2012 – 2012) *Ecuador*

Teacher Assistant

Teacher assistant for three lectures related to wastewater treatment.

Automotores y Anexos (Nissan & Renault) (2011 – 2011) *Ecuador*

Risk and Occupational Safety and Health Analyst

Responsible for risk assessment and occupational safety in the area of automotive workshops in Quito and Guayaquil.

Fichtner Water and Transportation (2010 – 2010) *Germany*

Assistant in International Projects

Assistant in various international projects regarding decontamination of wastewater and drinking water.

Fichtner Hidroestudios (2009 – 2009) *Ecuador*

Assistant in the project “Decontamination of rivers in Quito”

In charge of gathering information and processing of surveys in different parts of the city “Distrito Metropolitano de Quito”.

Languages:

Language	Conversation	Reading	Writing
English	Excellent	Excellent	Good
Spanish	Excellent	Excellent	Excellent
Portuguese	Good	Good	Poor

Other skills:

- Environmental modelling
- System dynamics modelling
- Programs: C++, ArcGis, Vesim, GAMS, Python

Membership in organizations:

CIWEM (Chartered Institution of Water and Environmental Management)

WATEF (Water Efficiency Network) by Department for Environment Food & Rural Affairs UK

IWA (International Water Association)

International Society for Industrial Ecology

Publications:

- In progress: A system dynamic approach for water efficiency in households in London.
- In progress: Inventory and spatial analysis of primary pollutants and GHG emission in the Galápagos Islands.
- In progress: From regulation and environmental discourses of plastics to practice in Ecuador.
- Flor, D; Dávila, A. (2017) Discursos ambientales: Análisis de la modernización ecológica en ciudades modernas. Conexión. Lima.
- Flor, D. (2016). The love story of water. WATEF. Link: <https://www.watefnetwork.co.uk/blog-771>
- Green Wise. (2015).El ingrediente oculto de la estrategia: La gestión del agua. EKOS. Link: <http://www.ekosnegocios.com/revista/pdfTemas/1278.pdf>
- Deloitte. (2013). RC en la región Andina. EKOS. Acceso en: <http://www.ekosnegocios.com/negocios/verArticuloContenido.aspx?idArt=2391>

Personal and professional references:

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