

CURRICULUM VITAE – VERONICA MINAYA

PERSONAL INFORMATION

Surname: Minaya Maldonado
First and Middle names: Veronica Graciela
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Nationality: Ecuadorian
Birth date: 30th August, 1981

EDUCATION

UNESCO – IHE, Delft, The Netherlands & Vienna, Austria

PhD researcher, Water and Science Engineering Department

Topic: The assessment of the interrelationship between the hydrology and the vegetation community in the alpine grasslands in Ecuador through an eco-hydrology model. (2012 - Present)

UNESCO – IHE, Delft, The Netherlands & Vienna, Austria

Master in Environmental Science (2008 – 2010)

Specialization: Limnology and Wetland Ecosystems

Study and finances fully covered by the NUFFIC scholarship and Fieldwork by USAID through Global Water for Sustainability Program (GLOWS)

Thesis topic: Land use change impacts on the benthic macro-invertebrate communities of streams in the head waters of Mara River, Kenya

Escuela Politecnica Nacional, Quito, Ecuador

Master in Hydric Resources and Water Science (CUM LAUDE) (2005 – 2008)

Specialization: Hydraulic Design

Thesis topic: Pre-Feasibility Design of Mini Hydroelectrical Project applying MDL components (Carbon Credits)

Escuela Politecnica Nacional, Quito, Ecuador

Bachelor of Science (CUM LAUDE) (1999 – 2005)

Major: Civil Engineering

RESEARCH & WORK EXPERIENCE

- **UNESCO-IHE, Delft, The Netherlands** (Sep 2011 – Dec 2011)
 - Assistance in the project: Water Quality Modelling and nutrient dynamics in the Abras de Mantequilla Wetland, Guayas - Ecuador
- **Internship, Deltares, Delft, The Netherlands** (Dec 2010 – Jul 2011)
 - Assistance in several projects:
 - Flood simulation modeling using Sobek for FEMA approval, case study Cypress Creek, USA
 - Pilot system for the water quality in the Adriatic Sea, case study Rimini, Italy
 - Effect of the bed river morphology and macrophytes in the biofilm development in unidirectional flows, Project in collaboration with Singapore water-alliance
 - Construction of a database for the biogeochemical classification (July 2010 – Nov 2010) of estuaries, eco-hydraulic modeling using Delft 3-D for Yongdam Reservoir - South Korea

- **MIDUVI (Ministry of Urban & Housing Development), Ecuador** (July 2007 – Dec 2007)
 - Engineering Assistant, Project: Revision and/or updating of Technical Studies of the Water Systems and/or Sanitation, worked with 15 drinking water projects and drainage systems located in the provinces of Esmeraldas, Manabí, Los Ríos and Tungurahua
- **Ecuacorriente S.A., Quito & Zamora, Ecuador** (Nov 2007 – Oct 2008)
 - Environmental Coordinator (Field): Environmental management plans, hydrological studies, monitoring and data collection for hydro-meteorological Reports, community environmental projects
- **MGA Engineers S.A., Ecuador** (March 2007 – July 2007)
 - Environmental Coordinator: Water monitoring, environmental impact studies, environmental management plans
- **CORPAIRE (Corporation for the air) and DMMA (Environmental Metropolitan Office of the Metropolitan District of Quito)** (Oct 2006 – March 2007)
 - Engineering Assistant, Project: Definition and design of processes, procedures and forms related to the environmental management information system concerning the natural resources of the Metropolitan District of Quito
- **EMAAP-Q (Drinking Water and Sewage Company of Quito)** (June 2005 – March 2006)
 - Engineering Assistant, Project: Alternative studies for conduction, treatment, transferring and storage within the Interandino Valley at a pre-feasibility level of the Rios Orientales Drinking Water Project
- **Escuela Politecnica Nacional, Quito, Ecuador** (March 2004 – Feb 2005)
 - Blue Print Drawing and Engineering Assistant

CONFERENCES & SEMINARS

- Speaker in the “3rd International Multidisciplinary Conference in Hydrology and Ecology, ecosystems, surface and groundwater”. University of Natural Resources and Life Sciences (BOKU), Vienna – Austria, May 2011
- Speaker in “Earth Science – Sixth Phase” in Escuela Politécnica Nacional Quito, Ecuador, November 2006
- Speaker in the First Ecuadorian Congress of Civil Engineering Students, Loja, Ecuador, February 2005
- IV International Specialization Course on Renewable Energy for Rural Electric Powering, Module I: Micro Hydro-Energy, Cajamarca, Peru, August 2007
- Course of “Mining Industry”, Quito, Ecuador, October 2006
- Seminar on Surface Hidrology, Loja, Ecuador, August 2006
- International Course, “Geochemistry, Mining and Environment”, Quito, Ecuador, March 2006
- Iberoamerican Workshop, “Technologies for Low Cost Housing”, Quito, Ecuador, July 2004
- Seminar on Actualization of Construction Additives, Quito, Ecuador, June 2004

PUBLICATIONS

- Conference paper, topic: “Operational Modelling Applications for Coastal Engineering: new developments” in the “10th International Conference on the Mediterranean Coastal Environment”, Rhodes – Greece, October 2011
- Conference paper, topic: “Variations in benthic macroinvertebrate assemblages with stream physico-chemical characteristics in headwater streams, Mara River Basin, Kenya” in the “3rd International Multidisciplinary Conference in Hydrology and Ecology, ecosystems, surface and

groundwater". University of Natural Resources and Life Sciences (BOKU), Vienna – Austria, May 2011

- Conference paper (Submitted): Penning, W.E., Minaya, V., Gourvendu, Ngoc, P., Singer, G. "Relative effects of macrophytes, biofilm and bedforms on transient storage and ecosystem productivity in unidirectional flows" in the "Interdisciplinary International Conference in the predictions of hydrology, ecology and water resources, HydroPredict 2012, Vienna – Austria.
- Minaya, V., McClain, M., Moog, O., Omengo F., Singer, G. 2013. Scale-dependent effects of rural activities on benthic macroinvertebrates and physico-chemical characteristics in headwater streams of the Mara River, Kenya. Ecological Indicators. DOI: 10.1016/j.ecolind.2013.03.011.
- Publication in the proceedings for the "Earth Science – Sixth Phase" Conference in Escuela Politécnica Nacional, Quito, Ecuador, November 2006

SKILLS & ADDITIONAL QUALIFICATIONS

- Languages:
 - Spanish: mother tongue
 - English: Escuela Politécnica Nacional, Quito - Ecuador
Sufficiency Certificate (Dec 2004), TOEFL IBT (Score 85), IELTS (Score 6)
 - German: Humbolt Gesellschaft, Quito - Ecuador
Six Levels completed (June 2004)
 - Dutch: Kottman Taal & Verhaal, Delft – The Netherlands
Currently B1 level (March 2012)
- Softwares:
 - Haestad Methods (Flow Master, HEC-RAS)
 - PCSWMM (Module: EXTRAN)
 - Database: Oracle
 - GIS
 - R 2.8.1 Statistical Software
 - Sobek 2.12
 - Autocad
 - Microsoft Office
 - Delft 3-D (Hydrodynamic and Water Quality module)