



Víctor Valencia Alvear

Environmental Science Phd student

Date of birth: January 7th, 1976

Address: Knudsvej 25, 4000, Roskilde, Denmark

+45 71411278, +593 959464642

vhva1976@gmail.com

victor.valencia@envs.au.dk

Ecuadorian and Spanish citizen

HIGH EDUCATION DEGREES

2019

PhD candidate
Department of Environmental Science
Aarhus University
Denmark

2009

Master's in Geographic Information
Systems, Polytechnic
of Catalonia University
(Universitat
Politécnica de
Catalunya)

2005

Master's in Environmental Studies, Del
Valle de Guatemala
University (Universidad
del Valle de
Guatemala)

2001

Chemical Engineering (approved in
Spain), National
Polytechnic School of
Ecuador (Escuela
Politécnica del
Ecuador)

CONFERENCES

Urban Transitions 2018
Poster presentation. How does urban
sprawl versus
densification affect air
pollution?

Harmo19

Poster presentation. 1st Prize Award
Modelling urban background air pollution
in Quito, Ecuador

PROFESSIONAL EXPERIENCE

2017

Inter-America Development Bank. Energy projects map design, web-map publishing. Contractual map designer.

2014 – 2016, 2017 – 2018

SIGTIERRAS Program – Ministry of Agriculture, Livestock and Fisheries of Ecuador. Thematic Maps Project scale 1:25,000. Spatial data analysis with Modelbuilder, Arcpy, Python, GDAL, PostgreSQL. On-line publishing with WMS /WMTS/TMS – Geoserver, Metadata – Geonetwork. Geographic Information Systems technician

2013

Department of Evaluation, Control and Information Dissemination from Ministry of Agriculture, Livestock and Fisheries of Ecuador. Spatial data infrastructure and geospatial data processing technician.

2011 – 2013

SITEL, S.A. Seville. Internet Technical Support by phone. Call center agent.

2010 – 2011

Ramsar Commission Secretariat of the United Nations. Consulting for production of American Wetlands maps. Map designer.

2007 – 2008

Virtual Modeling Laboratory, Polytechnic of Catalonia University. Rectification of digital aerial photographs. Remote sensing technician.

2007

Gent Project Grant, Fundación Politécnica de Cataluña - La Caixa. Adult trainer for Word, Excel, PowerPoint, Internet. Teacher.

2006

Centre for Environmental Studies, Del Valle de Guatemala University. GIS and Remote Sensing coordinator. Technical Manager of the Laboratory of Geographic Information Systems and Remote Sensing

2005 – 2006

Corporation for the air of Quito. Estimating and geo-referencing emission profiles of air pollutants. Environmental and GIS consultant.

2004 – 2005

Centre for Environmental Studies, Del Valle de Guatemala University. GIS Technician - Remote Sensing. Development of cartography, spatial analysis, spatial data base production. GIS technician.

2003

Corporation for the air of Quito. Maintenance and calibration of monitoring equipment for air pollution. Environmental technician.

2000 – 2001

Extractive Metallurgy Laboratory of National Polytechnic School of Ecuador. Analysis of metals, cyanide, flotation, fire assay, leaching. Laboratory assistant

EXPERT IN

Geomatics, Digital data processing using Python, Arcpy, GDAL PostgreSQL/PostGis

On-line map servers: Geoserver
Metadata: Geonetwork

Geographic Information Systems and Remote Sensing applied to natural resource management

Processing of satellite imagery and aerial digital photographs

Spatial analysis

Training in the use of applications of Geographic Information Systems and Remote Sensing: ArcGis, Geoserver, Geonetwork and PostgreSQL and Microsoft Office

Projects in areas of Environment, Geographic Information Systems and Remote Sensing

LANGUAGES

Spanish, English

INFORMATICS

Microsoft Office, Internet Explorer, Firefox, Windows, MacOS, Linux: Ubuntu, Centos

Databases Postgres,
Script programming: Python, Arcpy, Modelbuilder

On-line map server: Ms4w, Apache, Cartoweb, MySQL, Geoserver, Geonetwork, Mapserver

GIS and Remote Sensing: ERDAS IMAGINE, GlobalMapper, ENVI, ArcGIS, ArcView, ArcIMS, GvSig, CARTALINX, R2V, MARXAN, Mapserver, ArcInfo, Geomedia, MapInfo, ControlVuelo

OTHER USEFUL INFORMATION

Driving license type B
Availability to move and change of residence
Time availability

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ACADEMIC BACKGROUND

2018

Urban air pollution, Danish Technical University, Denmark. 5 ECTS

Academic Writing, Aalborg University, Denmark. 2 ECTS

Academic searching and publishing, Aalborg University, Denmark. 1 ECTS

2015

Advanced Cartographic Modelling in GIS. SIGTIERRAS. Ing. Xabier Velasco Echeverría. 34 hours.

Spatial Data Infrastructure. SIGTIERRAS – IGN Spain. Lic. Antonio F. Rodríguez Pascual. 26 hours.

Digital analysis of Imagery and Remote Sensing. SIGTIERRAS. Dr. Luis Angel Ruiz Fernández. 34 hours.

Geographic data quality. SIGTIERRAS - Universidad de Jaén. Dr. Francisco J. Ariza L. 32 hours.

2014

Properties valuation. Manuel Alcázar, Universidad de Jaén. Manuel Alcázar. 30 hours.

2013

Introduction to Computer Science and Programming/ Python. EdX, Massachusetts Institute of Technology, online. 96 hours.

2010

Courses of the Master's in Chemical and Environmental Technology, University of Seville.

2007

Spatial Data Infrastructure. National Geographic Institute of Spain. 40 hours.

2006

Watershed Monitoring, Modeling Scenarios for Change in Land Cover. Water Discharge and Sediment and Nutrients Modeling in the Mesoamerican Barrier Reef. The International Coral Reef Action Network - Mesoamerican Reef Alliance. 32 hours.

2006

Risk management and contingency plans for emergencies and disasters in Guatemala. PAHO/WHO, Ministry of Public Health and Welfare, National Network for Health and Environmental Laboratories, Del Valle de Guatemala University. 20 hours.

2006

Integrated management of water resources. UNESCO –San Carlos de Guatemala University. 40 hours.

2004

Applications of ERDAS IMAGINE 8.7 software in natural resource management. Del Valle de Guatemala University. 30 hours.

2004

Using ArcGIS 8.2 on natural resource management. 30 hours Del Valle de Guatemala University. 30 hours.

2004

On-line maps using ArcIMS. Coffee Association of Guatemala. 30 hours

2004

Introduction to Geographic Information Systems and Remote Sensing, Del Valle de Guatemala University. 30 hours.