



**Elena
Chicaiza**

Date of birth: 13/11/1980

Nationality: Ecuadorian

Gender: Female

CONTACT

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WORK EXPERIENCE

28/02/2005 – 27/04/2006 – Quito, Ecuador

GIS Junior Specialist

GIS applications in hydrology projects

01/05/2006 – 10/05/2011 – Quito, Ecuador

Specialist Geomatic, Coordinator of Spatial Data Infrastructure

Center of Integrated Surveying of Natural Resources by Remote Sensing, CLIRSEN

11/05/2011 – 28/06/2012 – Quito, Ecuador

Coordinator, Director of Cadaster

Inmobiliar-Department of Cadaster in Secretary of State Property Management, Inmobiliar

02/09/2012 – 29/12/2016 – Quito, Ecuador

Commission member thematic mapping

Pan American Institute of Geography and History - Ecuador Section

19/02/2014 – 18/09/2017 – Madrid, Spain

PhD Student Geographic Engineering

Polytechnical University of Madrid

29/09/2017 – CURRENT – Quito, Ecuador

Occasional Professor

Armed Forces University (ESPE)

Subjects: Statistics, Experimental Design, GIS, Agro Ecology in Sustainable Agriculture and Agro-business Master program.

04/03/2018 – 27/06/2019 – Quito, Ecuador

Educational Research Coordinator

Institute of Educational Assessment

Research's coordination of educational results assessment

20/06/2019 – CURRENT – Quito, Ecuador

Instructor

Escuela Politecnica Nacional (CEC)

Contents design and execution of courses: Basic Statistics, Programming Applied to Statistics with R and Python, Data Mining and Machine Learning with R, Sparklyr

01/09/2019 – 21/11/2019 – Castellón de La Plana, Spain

Occasional Professor

Jaume I University

Subject: GIS 1, program Science in Geospatial Technologies

01/12/2019 – 13/04/2022 – Quito, Ecuador

Geographic Information Coordinator, Institutional assessor

Metropolitan City Hall of Quito

Generation and analysis of territorial information for making decisions.

EDUCATION AND TRAINING

16/02/2014 – 15/09/2019 – Paseo Juan XXIII, 11, Calle Ramiro de Maeztu, 7, Madrid, Spain

PhD in Geographic Engineering

UPM - The Polytechnic University of Madrid

<https://www.upm.es/>

06/09/2014 – 28/06/2015 – Ciudad Universitaria de Cantoblanco, Madrid, Spain

Master in Planning and Sustainable Territorial Development

UAM - Autonomous University of Madrid

<https://www.uam.es/>

13/02/2010 – 18/02/2012 – Av. General Rumiñahui s/n y Ambato, Sangolquí, Ecuador

Master of Science, Environmental Audit.

ESPE - Army Polytechnic School

<https://www.espe.edu.ec/>

04/09/2010 – 25/06/2011 – Campus Las Lagunillas s/n, Jaen, Spain

Specialist in Quality Assessemnt of Geographic Information.

University of Jaén

<https://www.ujaen.es/>

15/08/1998 – 27/02/2004 – Av. General Rumiñahui s/n y Ambato, Sangolquí, Ecuador

Bachelor of Science, Geographic and Environmental Engineering

ESPE - Army Polytechnic School

<https://www.espe.edu.ec/>

LANGUAGE SKILLS

MOTHER TONGUE(S): Spanish

OTHER LANGUAGE(S):

English

Listening
B2

Reading
B2

**Spoken
production**
B2

**Spoken
interaction**
B2

Writing
B2

DIGITAL SKILLS

Advanced level R programme - data manipulation statistical models machine learning / Programming languages (Python and R program) / Geographical Information Systems (GIS) / Data Science, Data Analytics, Data Visualization / Microsoft Office e internet. / Usability Tools and Methods / Statistical downscaling model (SDSM-DC) / Model Verification and Validation / GIT Hub / Data Modelling (YANG, JSON, XML)

PUBLICATIONS

- **Geoid undulation modeling through the Cokriging method – a case study of Guayaquil, Ecuador.**

2021 <https://doi.org/10.1016/j.geog.2021.04.004>

- **Analysis of the spatial distribution of annual precipitation (1979-2014) applying interpolation methods in the Western Region of Paraguay**

2022 https://www.researchgate.net/publication/358786262_Analisis_de_la_distribucion_espacial_de_la_precipitacion_a_nual_1979-2014_aplicando_metodos_de_interpolacion_en_la_Region_Occidental_del_Paraguay Analysis of the spatial distribution of annual precipit

- **Analysis of Users and Uses of DEMs in Spain**

2017 https://mdpi-res.com/d_attachment/ijgi/ijgi-06-00406/article_deploy/ijgi-06-00406.pdf?version=1513760218

- **Spatial uncertainty of a geoid undulation model in Guayaquil, Ecuador**

2017 <https://www.degruyter.com/document/doi/10.1515/geo-2017-0021/html>