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6 Professional summary _____

I am an environmental engineer from Cuenca, Ecuador finishing my studies for an Erasmus Mundus Master of Science in Geospatial Technologies, expected by March 2019. My research scope includes spatial data analysis, particularly focused on R programming; remote sensing and earth observation data analysis, specially optical satellite imagery applied to environmental studies and analyses such as air pollution, land use/land cover change; geostatistical analysis of climate data; and ecological modelling. I feel very keen to pursue a career in research, science, and academia.





m Education

Westfälische Wilhelms-Universität Münster

Münster, Germany

ERASMUS MUNDUS MSC. GEOSPATIAL TECHNOLOGIES

2018 - Present

- S2 2018: covering Cartography, Reference Systems, Spatial Data Science with R, Unmanned Aerial Systems
- S3 2018: Masters Thesis: Validating a bike network analysis score based on open data as a connectivity measure of urban cycling infrastructure adapted for European cities. Supervised by Prof. Dr. Edzer Pebesma.
- · More info: mastergeotech.info

Universidade Nova de Lisboa

Lisbon, Portugal

ERASMUS MUNDUS MSC. GEOSPATIAL TECHNOLOGIES

2017 - Present

- · S1, 2017: covering Geospatial Data Mining, Geostatistics, Remote Sensing, Geographic Information Science, Python programming.
- · More info: mastergeotech.info

Universidad de Cuenca ENVIRONMENTAL ENGINEER BSc.

Cuenca, Ecuador

2011 - 2016

· Covering Biology, Ecology, Hydrology, Meteorology and Climatology, Environmental Studies, Natural Resources Management.

- Among 66 subjects during 10 semesters. · More info: ucuenca.edu.ec

Universität Osnabrück

Osnabrück, Germany

BIODIVERSITY SUMMER SCHOOL: THE DIVERSITY OF ECOSYSTEMS, GENES AND SPECIES

· More info: uni-osnabrueck.de



Universidad de Cuenca Cuenca, EC

RESEARCH ASSISTANT - GRUPO DE INVESTIGACIÓN DE CIUDADES SUSTENTABLES LLACTALAB - DEPARTAMENTO

05, 2017 - 08, 2017

INTERDISCIPLINARIO DE ESPACIO Y POBLACIÓN

· Spatio-temporal data analyst for the project: "Study of Cyclists and Pedestrian Mobility Patterns in Cuenca for a Sustainable Mobility".

Universidad de Cuenca Cuenca, Ec

TECHNICAL ASSISTANT - CARRERA DE INGENIERÍA AMBIENTAL - FACULTAD DE CIENCIAS QUÍMICAS

09, 2016 - 08, 2017

• CEDIA project "Geo-statistical Inference of Meteorological Data for Azuay and Chimborazo provinces".

Universidad de Cuenca Cuenca, EC

RESEARCHER - CARRERA DE INGENIERÍA AMBIENTAL - FACULTAD DE CIENCIAS QUÍMICAS

10, 2016 - 01, 2017

• Project "Water Quality and Environmental Variables Monitoring in Artificial Habitats for Endangered Species in Cuenca".

Universidad de Cuenca Cuenca, EC

RESEARCH ASSISTANT - CARRERA DE INGENIERÍA AMBIENTAL - FACULTAD DE CIENCIAS QUÍMICAS

03, 2016 - 07, 2016

Project "Determination of Particulate Matter PM10, PM2.5, and noise in Cuenca canton".

Universidad de Cuenca Cuenca, EC

Teaching Assistant - Carrera de Ingeniería Ambiental - Facultad de Ciencias Químicas

03, 2012 - 07, 2015

Introduction to Physics and Remote Sensing for the Environmental Engineering Career from Universidad de Cuenca.

Universidad de Cuenca Cuenca, EC

Intership - Grupo de Investigación de Ciudades Sustentables Llactalab - Departamento Interdisciplinario de

05, 2015 - 06, 2015

ESPACIO Y POBLACIÓN

· Cartographic data gathering organization, topographic correction and categorization of urban land uses, scientific papers analysis for bibliographic review.

Universidad de Cuenca Cuenca, EC

Intership - Departamento de Recursos Hídricos y Ciencias Ambientales (iDRHICA)

07, 2014 - 09, 2014

Assess the functioning state of Davis Station sensors, identify similarities and differences of two river basins hydrograms, analyze the effects of temperature and relative humidity on reference evapotranspiration calculation.



Quantifying Bicycle Network Connectivity in Lisbon Using Open Data

Journal Article

INFORMATION, MDPI

11, 2018

Abad, L., & van der Meer, L. (2018). Quantifying Bicycle Network Connectivity in Lisbon Using Open Data. Information, 9(11), 14. https://doi.org/10.3390/info9110287

Exploratory analysis of volunteer cyclists behavior through spatio-temporal patterns mining in Cuenca, Ecuador

Journal Article

Maskana 06, 2018

• Abad, L., & Orellana, D. (2018). Análisis exploratorio de comportamientos de ciclistas voluntarios mediante minería de patrones espacio-temporales en Cuenca, Ecuador. Maskana, 9(1), 141–151.

Potential distribution of the Polylepis genus in the Paute river basin under a climate change scenario

Journal Article

Revista de La Facultad de Ciencias Químicas

12, 2018

• Mejía-Coronel, D., Tonón, M., & Abad, L. (2018). Distribución Potencial del Género Polylepis en la Cuenca del Río Paute bajo un Escenario de Cambio Climático. Revista de La Facultad de Ciencias Químicas., December(19), 21–37.

Water quality and environmental variables in endangered amphibia habitats in Cuenca urban area

Journal Article

REVISTA DE LA FACULTAD DE CIENCIAS QUÍMICAS

11,2017

 Abad, L., Mejía, D., León, P., Cárdenas, I., Pacheco, B., & Tonón, M. (2017). Calidad del Agua y Variables Ambientales en Hábitats para Anfibios Amenazados en la Zona Urbana de Cuenca. Revista de La Facultad de Ciencias Químicas. Universidad de Cuenca.

Particulate Matter less than 10 microns concentration estimation through Remote Sensing in the Urban Area of Cuenca city

Conference Proceedings

XVI CONFERENCIA DE SISTEMAS DE INFORMACIÓN GEOGRÁFICA

09. 2017

• Abad, L., & Mejía-Coronel, D. (2017). Estimación De La Concentración De Material Particulado Menor a 10 Micras a Través De Sensores Remotos En El Área Urbana De La Ciudad De Cuenca. In XVI Conferencia de Sistemas de Información Geográfica (pp. 381–390). Cuenca, Ecuador: Universidad del Azuay.



2018 Benigno Malo Prize - University Honors Award

2017 Erasmus Mundus Scholarship2014 - 2016 Vanguardia Honors Program

Universidad de Cuenca European Commission Universidad de Cuenca

Personal Skills_____

TECHNICAL SKILLS

R QGIS

SQL

TeX

Python

Coding Languages

Software

QGIS

ArcGIS

PostgreSQL/
PostGIS
MaxEnt

ENVI

A Z LANGUAGES

Skill	Spanish	English	French	Portuguese	German	Dutch
Reading	Native	C2	B2	B1	A2	A1
Writing	Native	C1	B2	B1	A1	A1
Listening	Native	C2	B2	B1	A2	A1
Speaking	Native	C2	B2	B1	A2	A1

 $Common\ European\ Framework\ of\ Reference\ for\ Languages:\ A1/A2:\ Basic\ User.\ B1/B2:\ Independent\ User.\ C1/C2:\ Proficient\ User.\ C1/C2:\ Proficie$

Referees _____

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Prof. Dr. Daniel Orellana

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