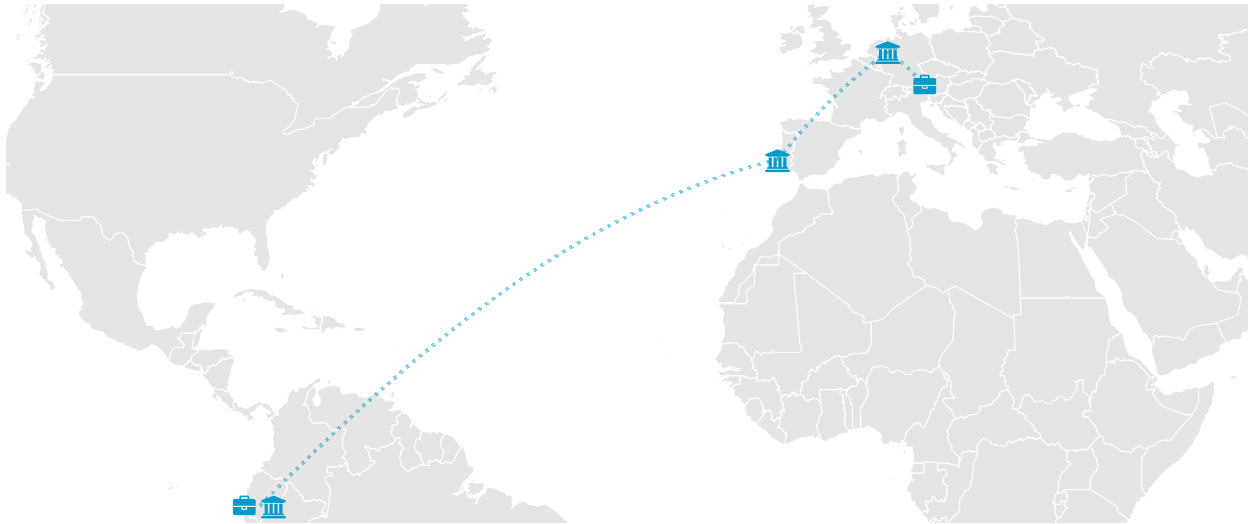# Lorena Abad

RESEARCHING THE ENVIRONMENT THROUGH GEOSPATIAL TECHNOLOGIES

Schillerstraße 30, 5020 Salzburg, Austria

📞 +43 662 8044 7582 | ✉ lorenacristina.abadcrespo@sbg.ac.at

loreabad6 | lorena-abad | loreabad6 | 0000-0003-0554-734X | Lorena_Abad2

✈ My journey

💼 Professional Experience

Researcher - Department of Geoinformatics - Z_GIS   *Salzburg, AT*

UNIVERSITY OF SALZBURG   *04, 2019 - Present*

- Using remote sensing and GIS to study natural geohazards and their interrelations for the MontEO, STEC, RiCoLa, MORPH, citizenMORPH projects in the Landslide division of the Risk, Hazard & Climate research group.

Research Assistant - Grupo de Investigación de Ciudades Sustentables Llactalab - Departamento Interdisciplinario de Espacio y Población   *Cuenca, EC*

UNIVERSIDAD DE CUENCA   *05, 2017 - 08, 2017*

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

Technical Assistant - Carrera de Ingeniería Ambiental - Facultad de Ciencias Químicas   *Cuenca, EC*

UNIVERSIDAD DE CUENCA   *09, 2016 - 08, 2017*

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

Researcher - Carrera de Ingeniería Ambiental - Facultad de Ciencias Químicas   *Cuenca, EC*

UNIVERSIDAD DE CUENCA   *10, 2016 - 01, 2017*

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

Research Assistant - Carrera de Ingeniería Ambiental - Facultad de ciencias Químicas   *Cuenca, EC*

UNIVERSIDAD DE CUENCA   *03, 2016 - 07, 2016*

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

🏛 Education

Universidade Nova de Lisboa & Westfälische Wilhelms-Universität Münster   *Lisbon, PT & Münster, DE*

ERASMUS MUNDUS MSC. GEOSPATIAL TECHNOLOGIES   *2017 - 2019*

- 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. URL: *http://hdl.handle.net/10362/67511*

Universidad de Cuenca   *Cuenca, EC*

ENVIRONMENTAL ENGINEER BSc.   *2011 - 2016*

- Bachelor Thesis (in spanish): Particulate Matter less than 10 microns concentration estimation through Remote Sensing in the Urban Area of Cuenca city. Supervised by Danilo Mejía Coronel. URL: *http://dspace.ucuenca.edu.ec/handle/123456789/25484*

Selected Publications

For a complete list of publications see *my Google Scholar profile*.

Assessment of Landslide-Induced Geomorphological Changes in Hítardalur Valley, Iceland, Using Sentinel-1 and Sentinel-2 Data
Journal Article

APPLIED SCIENCES
08, 2020

- Dabiri, Z., Hölbling, D., **Abad, L.**, Helgason, J. K., Sæmundsson, Þ., Tiede, D. (2020). Assessment of Landslide-Induced Geomorphological Changes in Hítardalur Valley, Iceland, Using Sentinel-1 and Sentinel-2 Data. Applied Sciences, 10(17), 5848. *https://doi.org/10.3390/app10175848*

Implementing Geo Citizen Science Solutions: Experiences from the citizenMorph Project
Journal Article

JOURNAL FOR GEOGRAPHIC INFORMATION SCIENCE
06, 2020

- Hennig, S., **Abad, L.**, Hölbling, D., Tiede, D. (2020). Implementing Geo Citizen Science Solutions : Experiences from the citizenMorph Project. Journal for Geographic Information Science, 7(2), 3–14. *https://doi.org/10.1553/giscience2020*

Mapping and monitoring of landslide-dammed lakes using Sentinel-2 time series -a case study after the 2016 Kaikoura Earthquake in New Zealand
Conference Proceedings

EGU GENERAL ASSEMBLY 2020
03, 2020

- **Abad, L.**, Hölbling, D., Spiekermann, R., Dabiri, Z., Prasicek, G., Argentin, A.-L. (2020). Mapping and monitoring of landslide-dammed lakes using Sentinel-2 time series -a case study after the 2016 Kaikoura Earthquake in New Zealand. EGU General Assembly 2020. *https://doi.org/10.5194/egusphere-egu2020-572*

Mapping and Analyzing the Evolution of the Butangbunasi Landslide Using Landsat Time Series with Respect to Heavy Rainfall Events during Typhoons
Journal Article

APPLIED SCIENCES, MDPI
01, 2020

- Hölbling, D., **Abad, L.**, Dabiri, Z., Prasicek, G., Tsai, T.-T., Argentin, A.-L. Mapping and Analyzing the Evolution of the Butangbunasi Landslide Using Landsat Time Series with Respect to Heavy Rainfall Events during Typhoons. Applied Sciences. 2020, 10, 630. *https://doi.org/10.3390/app10020630*

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*

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.

Skills

TECHNICAL SKILLS

Coding Languages	Software	Other
R – SQL – Python – JavaScript	QGIS – ArcGIS – SAGA – eCognition – PostgreSQL – PostGIS – RStudio – Earth Engine – GIMP – Mendeley	Git – Markdown – LaTex – OpenStreetMap

ORGANIZATIONAL SKILLS

06, 2020	e-Rum 2020 satellite event: *sfnetworks* Webinar and Hackathon 🔗	*Online Event*
09, 2019	citizenMorph App Testing Workshop	*Höfn, IS*
12, 2018	GeoMundus 2018 🔗	*Lisbon, PT*
06, 2016	I University Simposium of Environmental Science Research	*Cuenca, EC*
2013 - 2014	Vicepresident of the Student Association of Environmental Engineers	*Cuenca, EC*

LANGUAGES

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

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