**Alicia B. Correa Barahona.**

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1. PERSONAL PROFILE

An engineering and hydrology professional with over 5 years of experience in: water resources engineering, environmental management, catchment hydrology, mountain hydrology, runoff generation, hydrological processes, hydro-biogeochemical and isotope applications. Associate Professor at the School of Civil Engineering and Construction Management, University of Azuay, Ecuador (2010-2011). Research Assistant at Department of Water Resources and Environmental Sciences, University of Cuenca, Ecuador (2012-2014). Extensive experience in field data collection for research projects in Ecuador and Germany.

Today PhD candidate in Natural Sciences at the Institute of Landscape Ecology and Resource Management, Justus Liebig University, Giessen, Germany (to conclude in 2017). I am interested besides all the subjects mentioned above, on international cooperation for research projects, university teaching and activism for gender equality in the academic career and society.

1. EDUCATION

* [Expected: 2017] Justus Liebig University – JLU. | Giessen, Germany. Doctoral Candidate, Institute of Landscape Ecology and Resource Management. PhD thesis “Spatio-temporal dynamics in dominant runoff sources and flow paths in Andean Páramo catchments.” Prof. Dr. Lutz Breuer (ILR-JLU Giessen, Germany).
* [Expected: 2017] San Marcos University. | Lima, Peru. Higher Diploma in University education.
* [2009 – 2011] University of Cuenca. | Cuenca, Ecuador; University of Leuven KU Leuven | Leuven, Belgium; Ghent University. | Leuven, Belgium. MS, Master of Science. Management and conservation of water and soil resources. Master thesis “Analysis of scenarios of different land cover on micro-catchments by applying semi distributed hydrological models.” Prof. Dr. Felipe Cisneros (PROMAS-University of Cuenca, Ecuador).
* [2009] Andean Development Corporation (CAF) and Polytechnic School of the Littoral (ESPOL) | Azogues, Ecuador. Diploma in Training leaders for transformation.
* [2002 – 2008] University of Cuenca. | Cuenca, Ecuador. Civil Engineer. Faculty of Engineering, University of Cuenca, Ecuador
* [1996 – 2002] José Peralta High School. | Cañar, Ecuador. Bachelor in Physics and Mathematics and Bachelor in Social Science.

1. RESEARCH EXPERIENCE

* [2012 – 2017] Research Assistant at Justus Liebig University Giessen, Institute of Landscape Ecology and Resource Management (ILR). Lab. Prof. Dr. Lutz Breuer (ILR-JLU Giessen, Germany).
* [2016] Scientific visit at the Norther Rivers Institute, School of Geoscience, University of Aberdeen, Aberdeen, Scotland, UK. Field experiments and research. Prof. Dr. Doerthe Tetzlaff (NRI-University of Aberdeen, Scotland, UK).
* [2012 – 2014] Research Assistant at University of Cuenca, Department of Water Resources and Environmental Science (iDRHiCA) Lab and field experiments. Prof. Dr. Rolando Célleri (iDRHiCA-University of Cuenca, Ecuador).
* [2011] Research Assistant at University of Cuenca, Environmental compensation projects. Prof. Dr. Fernando Bermudez (University of Cuenca, Ecuador).

1. INDUSTRY/PROFESSIONAL EXPERIENCE

* [2008 – 2013] Co-Owner-CEO of Correa & Correa Ingenieros Cía. Ltda. | Cuenca, Ecuador. Consultant Engineer, Project manager, construction and design. Supervision of civil engineering and environmental projects.
* [2008– 2009]Constructora Ejeproy S.A. | Cuenca, Ecuador Engineering Designer, Engineering in Field Projects. Designs and control of projects.

1. TEACHING / MENTORING EXPERIENCE

* [2010 – 2011] University of Azuay. | Cuenca, Ecuador. Associate Professor. School of Civil Engineering and Construction Management. In charge of class presentations, exercises and exams for the classes. Responsible for grading all the activities and for planning the workshops and field trips of the following courses: Geology and Geopedology, (40 students).
* [2012] Seminar courses, University of Cuenca. | Cuenca, Ecuador. In charge of seminar presentations, exercises and for planning the workshops for Hydrological models (WETSPRO and VHM)
* [2012 – 2014] University of Cuenca. | Cuenca-San Fernando, Ecuador. Hydrological monitoring and field experiments at Zhurucay Ecohidrological Observatory (30 students).
* [2014 – 2015] University of Cuenca. | Cuenca, Ecuador. Jorge Ramon and Fernanda Ortiz. “Determinación de las principales fuentes de agua que generan escorrentía en zonas de paramo y su contribución, usando trazadores ambientales”. (Co-advisor)
* [2014 – 2015] University of Cuenca. | Cuenca, Ecuador. Mayra Ramon “Estimación de la fracción de agua de evento y pre evento que aportan al caudal, mediante el uso de isótopos estables, en la Cuenca del río Zhurucay”. (Co-advisor).

1. HONORS / AWARDS

* [2014 – 2016] Director of Society of Civil Engineers of Azuay. | Cuenca, Ecuador
* [2010 – 2012] Director of Society of Architects and Civil Engineers of Cañar. | Cañar, Ecuador.
* [2012] The National Secretary of Science Technology & Innovation of Ecuador (SENESCYT). | Quito, Ecuador. Award Scholarship to study PhD out of Ecuador, amount: $160,000.00.
* [2011] The National Secretary of Science Technology & Innovation of Ecuador (SENESCYT). | Quito, Ecuador. Award Scholarship to study MS out of Ecuador, amount: $110,000.00.
* [2007-2008] President of Engineering Women Association, University of Cuenca. | Cuenca Ecuador
* [2003] Best graduate medal of Bachelor in Physics Mathematics. | Cañar, Ecuador.
* [2003] Best graduate medal of Bachelor in Social Science. | Cañar, Ecuador.

1. ASSOCIATIONS/COMMUNITY ENGAGEMENT

* [2015 – 2017] Lise Meitner Society Member, organization with the aim to improve equal opportunities for women in the natural sciences and mathematics. | Germany.
* [2015 – 2017] European Geosciences Union Member.
* [2015 – 2017] Society of Civil Engineers of Azuay. | Cuenca, Ecuador. Academic Coordinator. In charge for organizing speakers, contents and meetings between professionals and University students.
* [2010 – 2012] Society of Architects and Civil Engineers of Cañar. | Cañar, Ecuador. Conferences Coordinator. In charge for organizing speakers and contents.
* [2002 – 2008] Amnesty International Member.
* [1998 – 2002] International Red Cross | Cañar, Ecuador. Volunteer and member of the Board of Directors, and Human Relations Associate

1. PUBLICATIONS (REFEREED PAPERS)

* [2016] **Correa, A.,** D. Windhorst, P. Crespo, R. Célleri, J. Feyen, and L. Breuer (2016), Continuous versus event based sampling: How many samples are required for deriving general hydrological understanding on Ecuador’s Páramo region?: Comparison of continuous versus event based sampling, Hydrological Processes., 30, 4059–4073, doi:10.1002/hyp.10975.
* [2017] **Correa A.,** Windhorst D., Tetzlaff D., Crespo P., Célleri R., Feyen J., Breuer L., 2017. Temporal dynamics in dominant runoff sources and flow paths in the Andean Páramo, Water Resources Research, (Accepted)

1. WORKSHOPS

* [2017] **Correa A.,** Windhorst D., Tetzlaff D., Silva C., Crespo P., Célleri R., Feyen J., Breuer L., Spatio-temporal dynamics of runoff sources in Andean Páramo catchments: An event-based approach analysis (EGU2017). European Geosciences Union General Assembly (EGU), April 23–28 2017, Vienna, Austria, Talk.
* [2017] **Correa A.,** Windhorst D., Tetzlaff D., Silva C., Crespo P., Célleri R., Feyen J., Breuer L., Runoff sources and flow paths dynamics in the Andean Páramo. (EGU2017). European Geosciences Union General Assembly (EGU), April 23–28 2017, Vienna, Austria, Poster.
* [2016] **Correa** A., Silva C., Windhorst D., Crespo P., Célleri R., Feyen J., Breuer L., Where does the water come from, and when? Spatial-temporal analyses of runoff sources in Páramo catchments (EGU2016-2342-1). European Geosciences Union General Assembly (EGU), April 17–22 2016, Vienna, Austria, Poster.
* [2016] **Correa A.,** Silva C., Windhorst D., Crespo P., Célleri R., Feyen J., Breuer L., Where does the water come from, and when? Spatial-temporal analyses of runoff sources in Páramo catchments. HOBE young hydrologist workshop, June 2-5 2016, Salten Skov, Denmark, Talk and poster.
* [2015] **Correa A.,** Silva C., Windhorst D., Crespo P., Célleri R., Feyen J., Breuer L., Runoff generation in Páramo ecosystem: General and storm approaches. Aberdeen Catchment Science Summer School. August 16-21 2015, Aberdeen, Scotland, UK, Poster.
* [2013] **Correa A.,** Windhorst D., Crespo P., Célleri R., Breuer L., "Landscape structure and hydrology patterns influence MTT derived from stable water isotopes in Páramo ecosystems of Ecuador" Annual Meeting of the German Association for Stable Isotope Research (GASIR), August 2013, Braunschweig, Germany., Poster.

1. SKILLS

ACADEMIC:

Scientific writing, tutoring and teaching.

*SOFTWARE:*

* Data Analysis: Excel, XlStat, R, SPSS.
* GIS: ArcGIS, QGis
* Hydrological Models: SWAT, WETSPRO-VHM
* Programing: Matlab.
* Others: INTERPRO. AUTOCAD – LAND, CYPECAD 3D, GEO SLOPE, HEC-RAS, ILWIS.

*LANGUAGES:*

* Spanish: Native
* English: Proficient in writing, reading and speaking.
* Portuguese: Medium
* German: Basic

1. REFEREENCES CONTACT

* Prof. Dr. Lutz Breuer, PhD. Chair of the Department of Landscape, Water and Biogeochemical Cycles and full Professor at Justus Liebig University.

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* Prof. Dr. Rolando Célleri, PhD. Chair of the Department of Water Resources and Environmental Sciences and the Doctoral Program in Water Resources at University of Cuenca.

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* Prof. Dr. Patricio Crespo, PhD. Chair of the Hydrological and Climate Center of Water at University of Cuenca.

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* Prof. Jan Feyen, PhD: Central Research Office of the University of Cuenca (DIUC), Ecuador.

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