



Claudia Teresa CANEDO ROSSO

Researcher in hydro-climatological engineering

I am a professional with strong communication and organizational skills acquired during the study and work in water resources and climate. My background on climatology, hydrology, and agriculture motivated me to research river flow, precipitation variability, disaster risk reduction, and hydro-climatological conditions.

Education

PhD in Hidro-climatological Engineering | University of Lund | Lund, Sweden
May 2014 – June 2019

The doctoral program focused on “Addressing water scarcity in the Bolivian Altiplano for sustainable water management”. The research aimed to study the relationship between climate phenomena and precipitation variability, and to evaluate drought using remote sensing and data analysis.

Master in Irrigation Engineering | Universidad Mayor De San Andrés (UMSA) | La Paz, Bolivia

July 2012 – April 2014

The program focused on water resources management. The master thesis aimed to study the “Frequency of the precipitation, and the crop water requirement in current climate and climate change conditions”.

Bachelor in Agricultural Engineering | Universidad Mayor De San Andrés (UMSA) | La Paz, Bolivia

January 2005 – May 2010

Excellence certificate achieved. The bachelor thesis focused on “The Institutional Vulnerability of Climate Change in Bolivia”.

Experience

Postdoc | Swedish Meteorological and Hydrological Institute (SMHI) | Norrköping, Sweden

August 2020 – June 2022

To develop hydrological research, and hydrological modelling. Application of the semi-distributed catchment model HYPE for water flow and substances simulation at several catchments around the globe.

Young Scientist | International Institute for Applied System Analysis (IIASA) | Laxenburg, Austria

June, July, and August 2017

To develop the research study “Drought risk in agriculture” within an interdisciplinary and international environment, using remote sensing and satellite data products.

Personal details

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Skills

Programing: R, MATLAB

Geographical information management: QGIS, ArcGIS

Hydro-climatological modeling: HYPE, SWAT, AquaCrop, LARS-WG

Microsoft Office: Word, Excel, PowerPoint

Languages

English (professional)

Spanish (native speaker)

Swedish (beginner)

Internship participant | Centro del Agua para Zonas Áridas y Semiáridas de Latino América y el Caribe (CAZALAC) | La Serena, Chile

April –December 2013

Definition of the Regional Frequency Analysis of precipitation in Bolivia. The results were published in the Atlas of drought for Latin America & the Caribbean (Nuñez et al., 2018, <https://unesdoc.unesco.org/ark:/48223/pf0000265894>).

Glacier retreat project assistant | Ministry of Environment and Water | La Paz, Bolivia

August 2011 – December 2012

To support the coordination of the project with focus on glacier retreat, water resources management, and irrigation for climate change mitigation.

Assistant | Universidad Mayor de San Andrés | La Paz, Bolivia

December 2011 – January 2012

To develop the curricular structure of a master's degree program of irrigation engineering following the contents of the master program of water resources engineering of the University of Leuven, Belgium.

Consultant | Consultancy Company Factum X S.R.L. | La Paz, Bolivia

November 2010 – July 2011

Evaluation of the economic activities and supply chains in the Andes of Bolivia, Chile, and Perú to identify strategies for improving farming conditions.

Consultant | World Bank and Universidad Mayor de San Andrés (UMSA) | La Paz, Bolivia

July to December 2010

Assessing the institutional vulnerability of climate change in Bolivia for the: "Adaptation to climate change vulnerability assessment and economic aspects - Plurinational state of Bolivia" (World Bank, 2010).

Conferences and seminars

SWAT international conference, June 2015, Sardinia, Italy.

Sumer school on runoff predictions in ungauged basins, Vienna University of Technology, July 2016, Vienna, Austria.

Young Scientists Summer Program, International Institute for Applied Systems Analysis, June-August 2017, Laxenburg, Austria.

Nordic water: Nordic Hydrological Conference, August 2018, Bergen, Norway.

Member of Toastmasters International, Competent communicator with training on public speaking, 2016-2019, Lund, Sweden.

Hobbies

Hiking, skiing, biking, reading.

Publications

Claudia Canedo Rosso, Stefan Hochrainer-Stigler, Georg Pflug, Bruno Condori, and Ronny Berndtsson, 2021. Drought impact in the Bolivian Altiplano agriculture associated with El Niño Southern Oscillation using satellite imagery data. *Journal Natural Hazards and Earth System Sciences*. <https://doi.org/10.5194/nhess-21-995-2021>

Claudia Canedo Rosso, Ronny Berndtsson, and Cintia B. Uvo, 2020. Drought and Agricultural Production in the Central Managing Soils and Terrestrial Systems (2nd ed.). *Andes. Fath, B.D., Jørgensen, S.E., and Cole, M. (Eds.)*. CRC Press. <https://doi.org/10.1201/9780429346255>

Claudia Canedo Rosso, Cintia B. Uvo, and Ronny Berndtsson, 2019. Precipitation variability and its relation to climate anomalies in the Bolivian Altiplano. *International Journal of Climatology*, 2019; 39: 2096–2107. <https://doi.org/10.1002/joc.5937>

Claudia Canedo Rosso, Ramiro Pillco Zolá, and Ronny Berndtsson, 2016. Role of Hydrological Studies for the Development of the TDPS System. *Water Journal*, 8(4) 144. <https://doi.org/10.3390/w8040144>

References

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