MELISSA DE JESÚS MEDINA BURGA

AVENIDA ALAMEDA DEL CORREGIDOR 1678 DPTO 302
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I am physical of the National University of San Marcos - Peru. I have done master's studies at the La Molina Agrarian University in Applied Meteorology and the thesis to qualify for the master's degree was developed at the Geophysical Institute of Peru - IGP as part of the project "Study of extreme hydrological events in the Peruvian Amazon: Qualitative warning system for prevention ", thesis that was supported on October 25, 2019, where neural networks and hierarchical ascending classification were used. I have worked as a meteorological data analyst for the Institut de Recherche pour le Développement (IRD) at the Geophysical Institute of Peru (IGP), where I have worked as a meteorological information analyst in the Andean-Amazon region of Peru and Bolivia collaborating with the Research area in Variability and Climate Change. Since 2012 my work is oriented to the understanding of the evolution of the climate at different time scales. I teach a university chair at the Private University of Applied Sciences (UPC) and I have worked at the Technological University of Peru (UTP) teaching physics courses at different levels.

- **Documento Nacional de Identidad**

43492003

- **ORCID Id:**

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Formación:

- **UNIVERSIDAD NACIONAL AGRARIA LA MOLINA**
  Faculty of Environmental Sciences, Meteorology and Physics.MASTER IN APPLIED METEROLOGY
  Title: Determination of patterns of horizontal winds in the troposphere and its relation to precipitation in the Bolivian Peruvian highlands
  Date of support: October 25, 2019

- **UNIVERSIDAD NACIONAL MAYOR DE SAN MARCOS**
  Faculty of Physical Sciences
  Professional Academic School of Physics
  BACHILLER 2009
  MENTION IN SPACE PHYSICS AND ENVIRONMENT.

Professional experience:

- **UNIVERSIDAD PERUANA DE CIENCIAS APLICADAS**

research professor
Marzo 2015 – at present
Courses in charge:
Physics Leveling
Physics I
Physics II
Physics III
Physics for Architecture
Physics for Computer Science

- **PERU GEOPHYSICAL INSTITUTE**
  RESEARCH ASSISTANT
  March 2015 - June 2016
  October 2016 - December 2017

- **IRD**
  METEOROLOGICAL DATA ANALYST
  April 2013 - October 2014

- **UNIVERSIDAD TECNOLÓGICA DEL PERÚ**
  PHYSICS LABORATORY ASSISTANT
  January 2012 - April 2013

- **PERU GEOPHYSICAL INSTITUTE**
  THESIST
  November 2010 - December 2011

Publications and projects:

- **Sicart JE., Espinoza JC., Queno L., Medina M., 2015:** *Radiative properties of clouds over a tropical Bolivian glacier: seasonal variations and relationship with regional atmospheric circulation.* International Journal of Climatology. DOI: 10.1002/joc.4540

- **Innóvate Peru Project N°397-PNICP-PIAP-2014.** *"Study of external hydrological events in the Peruvian Amazon: Qualitative warning system for forecasting''.* **IGP - IRD**
  September 2014 - 2017.

Professional complementation courses:
Language
BRITISH PERUVIAN CULTURAL ASSOCIATION.
Intermediate level

MATLAB knowledge
GRADS knowledge
FORTRAN knowledge
Python knowledge
Basic knowledge of LINUX operating system