Alfonso Ladino Rincon

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EDUCATIONAL EXPERIENCE

The University of Illinois at Urbana Champaign   In progress
PhD in Atmospheric Sciences

Universidad Nacional de Colombia   Bogotá, Colombia
Master of Science in Meteorology   September, 2018
Dissertation: *"Characterization of rain microphysics using disdrometers and dual polarization radar data for quantitative precipitation estimation from Aburrá valley metropolitan area"* – Meritorious Thesis

The University of Oklahoma   Norman, OK
Exchange Student   Spring, 2016
School of Meteorology – College of atmospheric and geographic sciences

Universidad Nacional de Colombia   Bogotá, Colombia
Bachelor in Agricultural Engineer   September, 2013

PROFESSIONAL EXPERIENCE

Professional with Knowledge in Dual Polarization Radars   Bogotá, Colombia
Instituto de Hidrología, Meteorología y Estudios Ambientales – IDEAM   September, 2016 - Present

- Supervision and technical support in the installation and operation of the four meteorological radars recently purchased
- Generation of images and products derived from weather radars information, used in issuance of alerts and forecasts in Colombia
- Implementation of methodologies for quantitative precipitation estimation
- Generation of meteorological products and information using data from GOES 16 satellite

Meteorology Expert   Bogotá, Colombia
Fundación Instituto Geofísico – Pontificia Universidad Javeriana   July, 2015 – December, 2015

- Technical support during diagnosis of the hydrometeorological network of entities with a presence in Bogotá, Colombia
- Technical support during the integration of the hydrometeorological network of entities with a presence in Bogotá, Colombia
- Generation of maps for the visualization of the information of the red hydrometeorological network of entities with presence in Bogotá, Colombia.

Hydrometeorology Postgraduate Student   Bogotá, Colombia
Instituto Geofísico – Pontificia Universidad Javeriana   February, 2015 –
                                                                                                    December, 2015

- Application development ("scripts") in Linux for post-processing weather radar data
- Estimation of rainfall fields from mathematical and computational models that incorporate weather radar data
- Apply performance metrics to mathematical models of rainfall field estimation

SCHOLARSHIPS & AWARDS

Fulbright – Colciencias Scholarship   Bogotá, Colombia
Cohort 2020   August, 2019

Artificial Intelligence Training   Bogotá, Colombia
Ministry of Information Technology and Communications and Platzi   August, 2019

HACK THE RISK! Smart Solutions on Water Issues and Floods   Bogotá, Colombia.
Winner as a Team Member   April, 2019

Meritorious Thesis – MSc. Meteorology   Bogotá, Colombia
Universidad Nacional de Colombia   September, 2018

Scholarship – Graduate Academic Fees exemption   Bogotá, Colombia
Universidad Nacional de Colombia   Fall, 2014

TEACHING EXPERIENCE

Universidad Nacional de Colombia – Sede Manizales   Manizales, Colombia
IDEA – Instituto de Estudios Ambientales   October, 2019
Invited lecturer on weather radars uses and applications to early
warning systems over Caldas, Colombia – 40 hours short course

CONFERENCES & SEMINARS

Colombian national weather radar network. Quantitative   Cartagena, Colombia
precipitation estimation advances.   September, 2019
Agencia Estatal de Meteorología (AEMET) – Agencia Española de
Cooperación Internacional para el Desarrollo (AECID)

Risks due to threats of hydrometeorological events   Bogotá, Colombia
Comprehensive analysis system for the risk of rapid flooding in   May, 2019
riverine populations.
Escuela de Ingenieros Militares

IV Radarization and Early Warning Systems Symposium of the   Córdoba, Argentina
Southern Cone   October, 2018

Colombian national weather radar network evolution and conformation. New challenges for a country highly affected by hydrometeorological events.
Observatorio Hidro-Meteorológico de Córdoba

38th Conference on Radar Meteorology   Chicago, IL
International Conference - Attendee   September, 2017

ADDITIONAL COURSEWORK

SmartMet Training   Bogotá, Colombia
Operational Meteorologist Training Workshop   February, 2019
Instituto de Hidrología, Meteorología y Estudios Ambientales – IDEAM
& Finnish Meteorological Institute – FMI

GOES-R Data and Product Usage & GEONET Cast Americas   São José dos
Instituto Nacional de Pesquisas Espaciais – INPE   Campos, Brazil
                                                          August, 2018

WRM200 Weather Radar Hardware Maintenance Training Course   Guaviare, Colombia
Instituto de Hidrología, Meteorología y Estudios Ambientales – IDEAM   June, 2018
& VAISALA

WRM200 Weather Radar Software Training Course   Guaviare, Colombia
Instituto de Hidrología, Meteorología y Estudios Ambientales – IDEAM   June, 2018
& VAISALA

Short Course in Open Source Radar   Chicago, IL
The American Meteorological Society   August, 2017

Python - Radar Applications   Bogotá, Colombia
Instituto de Hidrología, Meteorología y Estudios Ambientales - IDEAM   August, 2019
& Sistema de Alerta Temprana del Valle de Aburrá - SIATA

Workshop Big Data and Environments   Buenos Aires,
French-Argentinean Institute for the Study of Climate and its Impacts   Argentina
Universidad de Buenos Aires   November, 2016

Management of Hydrological Data Using Hydroserver   Cartagena, Colombia
Workshop Training Course   May, 2015
NOAA – GEO - CIEHLYC, Comisión Colombiana del Océano

SKILLS

- Proficient in programming using Python, GitHub, QGIS and Linux OS.
- Radar and satellite data manipulation and interpretation
- Forecaster and meteorological data interpretation

RESEARCH INTEREST

- Meteorology and Atmospheric Sciences
- Quantitative Precipitation Estimation and Forecast
- Remote Sensor Applications (Weather radar and Satellite)
- Geospatial Data Science & Machine Learning
- Hydrometeorological Modeling

LANGUAGES

- Spanish – Native language
- English – Fluent