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## **EDUCATION**

Universidad de los Andes, Colombia	Bogotá, Colombia	MS Systems and Computing Engineering	MS, 2011
Universidad Nacional de Colombia	Bogotá, Colombia	Systems Engineering	BE, 2000

## **RESEARCH INTERESTS**

Information Engineering, Software Architecture, Big Data, Linked Data, Data Mining

## **PROFESSIONAL EXPERIENCE**

The Water Institute of the Gulf	Data Architect	2021-Present
CERN, Switzerland	CMS Experiment Monitoring CAT-A	2019-2020
Universidad de los Andes, Colombia	Adjunct Professor	2021-Present
	Instructor	2015-2018
	Doctoral teaching assistant	2012-2014
	Professional Project Assistant	2011-2012
	Graduate Assistant	2010-2011
Grupo de Consultoría Informática, CGI, Colombia.	Web developer	2008-2010
PointMind LTDA, Colombia	Developer	2008

## **AWARDS AND HONORS**

- Top 10 ECAES Nationally in systems Engineering. [2007, ICFES](#).

## **TEACHING EXPERIENCE**

Former full-time instructor (4 years), and current adjunct professor, at the Universidad de los Andes, Colombia. Topics: Big Data Analysis and Architecture, Business Intelligence, Programming.

Additionally, technical training at CERN for the CMS experiment operators, and teaching in MOOCs in Coursera, in Spanish, on Data Architectures and NoSQL technologies.

## **TRAINING COURSES**

- Semantic Web
- Teacher Training Module
- Google Cloud Platform Fundamentals.

## **NOTABLE PROJECTS**

<b>SmartPort &amp; Resilience Center</b> <i>Data Architect, The Water Institute of the Gulf</i>	Current
<b>CMS Experiment Monitoring Architecture</b> <i>Developer/Operator, CERN</i>	2019-2020
<b>CDCOL</b> <i>Technical lead, IDEAM- Universidad de los Andes, Colombia</i>	2015-2018

## **PUBLISHED WORKS**

Ariza-Porras, C., Kuznetsov, V., Legger, F., Indra, R., Tuckus, N., & Uzunoglu, C. (2021). The evolution of the CMS monitoring infrastructure. EPJ Web of Conferences, 251, 02004. EDP Sciences.

Ariza-Porras, C., Kuznetsov, V., & Legger, F. (2021). The CMS monitoring infrastructure and applications. Computing and Software for Big Science, 5(1), 1–12.

- Ariza-Porras, C., Kuznetsov, V., & Legger, F. (2020b). Big data solutions for CMS computing monitoring and analytics. EPJ Web of Conferences, 245, 03022. EDP Sciences.
- Villamizar, M., Castro, H., Ariza-Porras, C., Mancipe, M. P., Cabrera, S., Pachon, I., ... Others. (2018). Scaling the Colombian Data Cube Using a Distributed Architecture. IGARSS 2018-2018 IEEE International Geoscience and Remote Sensing Symposium, 441–444. IEEE.
- Pachón, I., Ramírez, S., Fonseca, D., Lozano-Rivera, P., Ariza, C., Mancipe, M. P., ... Becerra, M. T. (2018). Random Forest Data Cube Based Algorithm for Land Cover Classification: A Colombian Case. IGARSS 2018-2018 IEEE International Geoscience and Remote Sensing Symposium, 8651–8654. IEEE.
- Bravo, G., Castro, H., Moreno, A., Ariza-Porras, C., Galindo, G., Cabrera, E., ... Lozano-Rivera, P. (2017). Architecture for a Colombian data cube using satellite imagery for environmental applications. Colombian Conference on Computing, 227–241. Springer, Cham.
- Ariza-Porras, C., Bravo, G., Villamizar, M., Moreno, A., Castro, H., Galindo, G., ... Lozano, P. (2017). CDCol: a geoscience data cube that meets Colombian needs. Colombian Conference on Computing, 87–99. Springer, Cham.
- Moreno, A., Ariza-Porras, C., Lago, P., Jiménez-Guarín, C. L., Castro, H., & Riveill, M. (2014). Hybrid model rating prediction with linked open data for recommender systems. In Semantic Web Evaluation Challenge (pp. 193–198). Springer International Publishing.
- Rivera, S., Riveros, H., Ariza-Porras, C., Lozano-Garzon, C., & Donoso, Y. (2013). QoS-QoE correlation neural network modeling for mobile internet services. 2013 International Conference on Computing, Management and Telecommunications (ComManTel), 75–80. IEEE.
- Lozano-Garzon, C., Ariza-Porras, C., Rivera-Diaz, S., Riveros-Ardila, H., & Donoso, Y. (2012). *Mobile Network QoE-QoS Decision Making Tool for Performance Optimization in Critical Web Service*.