

Christian Poveda-Ruiz

PHYSICIST · DATA SCIENTIST

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Education

Universidad de los Andes B.S. IN PHYSICS	<i>Bogotá, Colombia</i> 2011 - 2016
Universidad de los Andes B.S. IN MATHEMATICS	<i>Bogotá, Colombia</i> 2012 - Present
Universidad de los Andes M.Sc. IN INFORMATION ENGINEERING	<i>Bogotá, Colombia</i> 2016 - Present

Experience

Alianza CAOBA GRADUATE RESEARCH ASSISTANT	<i>Bogotá</i> July 2016 - August 2017
<ul style="list-style-type: none">• Development of an interactive web application to allow monitoring of the state of the public transport service in Rio de Janeiro.• Study on traffic and mobility in order to characterize traffic accidents according to their causes in different areas of Bogotá.• Study on taxes of urban delineation and characterization of taxpayers in order to detect anomalous declarations of constructions in Bogotá.	
Rappi inc. DATA SCIENTIST FOR OPERATIONS	<i>Bogotá</i> June 2017 - Present

Programming

Python	<ul style="list-style-type: none">• As a general purpose programming language.• Experience using Numpy, Pandas and PySpark for data processing.• Experience using Scikit-learn and Tensorflow for machine learning.• Experience using Flask and Gunicorn for backend web development.
C	<ul style="list-style-type: none">• Mainly for optimizing specific tasks in scientific programming.• Experience writing Python modules over CPython.
Go	<ul style="list-style-type: none">• As a fast development programming language.• Experience developing web applications using Echo.
Rust	<ul style="list-style-type: none">• For Systems Programming in several contexts.• Experience developing basic web applications.• Experience writing embeddable modules for Python.• Done small contributions to Rust related projects like Servo, Cargo and Rust itself.
Javascript	<ul style="list-style-type: none">• Experience using ReactJS for frontend web development.• Developed interactive dashboards for near real-time monitoring.• Basic knowledge of D3.js for Data visualization.
Java	<ul style="list-style-type: none">• As a general purpose programming language.• Some experience using Hadoop for data processing.
Elixir	<ul style="list-style-type: none">• As a general purpose programming language.• Experience writing concurrent applications using OTP.• Some experience writing ETL tools.• Some experience using Plug for backend web development.
Others	<ul style="list-style-type: none">• Experience using Git for VCS.• Experience using Docker to deploy microservices and other applications.• Experience using Redis for real-time processing.• Experience using MongoDB including its geospatial features.• Experience using PostgreSQL.• Proud Linux user since 2010.

Teaching

2013	Teaching Assistant , Computational Methods for Physicists	<i>Uniandes</i>
2014	Teaching Assistant , Computational Methods for Physicists	<i>Uniandes</i>
2015	Teaching Assistant , Electromagnetism II	<i>Uniandes</i>
2015	Instructor , Integral Calculus with Differential Equations	<i>Uniandes</i>
2016	Teaching Assistant , Computational Tools for Scientists	<i>Uniandes</i>
2016	Teaching Assistant , Computational Methods for Physicists	<i>Uniandes</i>

Publications

Quantifying and controlling biases in estimates of dark matter halo concentration *The Astrophysical Journal*, 832, 2
C. N. POVEDA-RUIZ, J. E. FORERO-ROMERO, AND J. C. MUÑOZ-CUARTAS *November 30, 2016*

Events

2010	Assistant , Workshop on Physics and Technology at CERN (Universidad Nacional de Colombia)	<i>Bogotá, Colombia</i>
2013	Assistant , Quinta Escuela de Física Matemática (Universidad de los Andes)	<i>Bogotá, Colombia</i>
2013	Assistant , Assistant at Workshop de Astronomía (Universidad de los Andes)	<i>Bogotá, Colombia</i>
2013	Oral Presentation , IV Congreso Colombiano de Astronomía (Universidad de Nariño)	<i>Pasto, Colombia</i>
2016	Scholarship Assistant , First Mexican AstroCosmoStatistics School (Universidad de Guanajuato)	<i>Guanajuato, México</i>
2016	Scholarship Assistant , XXIV Escuela de Verano en Física (Universidad Nacional Autónoma de México)	<i>México, México</i>
2017	Assistant , Tendencias en Big Data y Analytics (Pontificia Universidad Javeriana)	<i>Bogotá, Colombia</i>