Christian **Poveda-Ruiz**

Physicist · Data Scientist

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Education x

Universidad de los Andes	*Bogotá, Colombia*
B.S. in Physics	*2011 - 2016*
Universidad de los Andes	*Bogotá, Colombia*
B.S. in Mathematics	*2012 - Present*
Universidad de los Andes	*Bogotá, Colombia*
M.Sc. in Information Engineering	*2016 - Present*

Experience

Alianza CAOBA — *Bogotá*
Graduate Research Assistant — *2016 - Present*

- 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.

Programming

Python
- 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 for backend web development.

C
- Mainly for optimizing specific tasks in scientific programming.
- Experience writing Python modules over CPython.

Rust
- For Systems Programming in several contexts.
- Experience developing basic web applications.
- Experience writing Python modules over CPython.
- Done small contributions to Rust related projects like Servo, Cargo and Rust itself.

Javascript
- Some experience using ReactJS for frontend web development.

Java
- As a general purpose programming language.
- Some experience using Hadoop for data processing.

Elixir/Erlang
- As a general purpose programming language.
- Some experience using OTP for concurrency.

Teaching

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

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)	*Bogotá, Colombia*
2013	**Assistant**, Quinta Escuela de Física Matemática (Universidad de los Andes)	*Bogotá, Colombia*
2013	**Assistant**, Assistant at Workshop de Astronomía (Universidad de los Andes)	*Bogotá, Colombia*
2013	**Oral Presentation**, IV Congreso Colombiano de Astronomía (Universidad de Nariño)	*Pasto, Colombia*
2016	**Scolarship Assistant**, First Mexican AstroCosmoStatistics School (Universidad de Guanajuato)	*Guanajuato, México*
2016	**Scolarship Assistant**, XXIV Escuela de Verano en Física (Universidad Nacional Autónoma de México)	*México, México*