Christian **Poveda-Ruiz**

Physicist · Data Scientist

☐ (+57) 305-771-98-32 | ✉ christianpoveda@protonmail.com

Education

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

Experience

Universidad de los Andes — *Bogotá*
Graduate Assistant — *February 2018 - Present*

Rappi inc. — *Bogotá*
Data Scientist for Operations — *June 2017 - February 2018*
- Co-designer of the A / B testing platform used on the CPGs search engine.
- Introduced human search quality rating into the Quality Assurance process for the CPGs search engine.
- Development of a predictive model to estimate the time of payment of a debt acquired by a domiciliary. Based on this, the concept of "reliable domiciliary" in operations was redefined.
- Development of a data pipeline to monitor the distribution of supply and demand in near real time.

Alianza CAOBA — *Bogotá*
Graduate Research Assistant — *July 2016 - August 2017*
- 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.

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*

Teaching

2018	**Professor**, Discrete Mathematics and Logic		*Uniandes*
2016	**Teaching Assistant**, Computational Methods for Physicists		*Uniandes*
2016	**Teaching Assistant**, Computational Tools for Scientists		*Uniandes*
2015	**Instructor**, Integral Calculus with Differential Equations		*Uniandes*
2015	**Teaching Assistant**, Electromagnetism II		*Uniandes*
2014	**Teaching Assistant**, Computational Methods for Physicists		*Uniandes*
2013	**Teaching Assistant**, Computational Methods for Physicists		*Uniandes*
2011	**Teaching Assistant**, Algorithmics and Object Oriented Programming I		*Uniandes*

Events

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

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 and Gunicorn for backend web development.

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

Go
- As a fast development programming language.
- Experience developing web applications using Echo and Gorilla/Mux.

Rust
- 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
- Experience using ReactJS for frontend web development.
- Developed interactive dashboards for near real-time monitoring.
- Basic knowledge of D3.js for Data visualization.

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

Elixir
- 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
- Experience using Git for VCS.
- Experience using Docker to deploy microservices and other applications.
- Experience using Redis for real-time data processing.
- Experience using MongoDB including its geospatial features.
- Experience using PostgreSQL.
- Proud Linux user since 2010.