

HEBER BERMUDEZ

Statistician — Data scientist

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PROFESSIONAL PROFILE

Experienced Statistician with a passion for applied statistics in data science and artificial intelligence. Proficient in the development and implementation of predictive models, database management, and software development. Strong IT and analytical skills, along with excellent interpersonal and communication abilities. Skilled in applying statistical theories and methods to solve practical problems in various industries, including healthcare, engineering, environment, and software development.

EDUCATION

National University of Colombia.
Bachelor in Statistics.

Aug 2015- Dec 2021, Medellín, Colombia.

National Training Service.
Technologist in industrial production management.

2013-2014, Ibagué, Colombia.

National Training Service.
Software developer technician.

2010-2011, Ibagué, Colombia.

EXPERIENCE

Health Service Center, SENA

Oct 2022 - present

- Implemented innovative technological solutions utilizing artificial intelligence for medical data analysis and interpretation.
- Planned and executed events focused on the application of artificial intelligence in the field of healthcare.

Infection and Cancer Research Group.

Dec 2020 - Jul 2021

Intern, Epidemiological data analyst, Antioquia University.

Medellín, Colombia.

- Conducted statistical analyses for epidemiological and biomedical research projects, providing support for data interpretation and study findings.
- Collaborated on research projects, contributing to the creation of detailed reports summarizing findings.

GIE, Research incubator National University of Colombia.

Jan 2019 - Dec 2021

National University of Colombia.

Medellín, Colombia.

- Founded and managed a research incubator where lead a group of 20 people. The group was attached to the school of statistics as a pedagogical strategy.
- Trained in applied statistics, data science, machine learning, and AI theory and application.
- Organized academic materials for contest, congress, and colloquium participation. For further information, see: <https://unalyticsteam.github.io/unalytics/>

Biosupplies SAS.

Jan 2014 - Feb 2015

*Intern**Ibagué, Colombia.*

- Improved administrative efficiency through creation of forms, process manuals, and automation of tasks such as stock management and quality control.
- Successfully developed and distributed a software solution for efficient prescription of masterly medicines to major hospitals in Colombia's municipalities in partnership with the company.
- Participated in laboratory certification visit conducted by National Institute for Food and Drug Surveillance.

OTHER ACTIVITIES**International cultural exchange.**

Jul 2021 - Oct 2021

*Exchange student**SD, United States.*

- Participated in a cultural exchange program as a student, where I had the opportunity to improve my English language skills and gain a better understanding of American culture. This valuable experience helped me to develop cross-cultural communication abilities and expand my global perspective.

PUBLICATIONS**Journals papers in review.**

- Comparison of the clinical performance of the lower-cost (HybriBio-H13) and HC2 HPV tests for detection of CIN2+ and CIN3+. Maria Cecilia Agudelo, Samuel Agudelo, Gloria Inés Sánchez, et al. Cancer Investigation journal, March 2022, acknowledgment **Esteban Bermudez**

Conference notes.

- Text mining to study some terminologies about data science in Colombia.
Heber Esteban Bermudez, Karen Andrea Amaya, Yubar Marín, René Palomino.
<https://acortar.link/Hdgr3S>

AWARDS AND RECOGNITIONS**Student Representative.**

2019

Student representative of the Conflict Resolution and Disciplinary Aspects Committee of the Faculty of Sciences of the National University of Colombia, democratically elected by vote.

Best degree project.

2011

Technical School, Best degree project related to software development.

ACADEMIC ACTIVITIES**XIII National statistics colloquium**

2021

*Attendant, National University of Colombia.***XII National statistics colloquium**

2019

*Speaker, Web application, Machine Learning for text analysis.
National University of Colombia.*

XXIX International statistical symposium

2019

*Speaker, Text mining to study some terminologies
about data science in Colombia, Northern University.*

Dataton BC	2019
<i>Data science and artificial intelligence challenge, Bancolombia bank.</i>	
<i>Modeling of credit risk from the digital trace, top 20% Kaggle Challenge.</i>	
Dataton BC	2018
<i>Data science and artificial intelligence challenge, Bancolombia bank.</i>	
<i>Text mining to identify expenses by categories.</i>	

CERTIFICATIONS, MOOCS

Artificial Intelligence for medicine.	2022
<i>Coursera, Deeplearning.ai</i>	
AWS S3 Basics.	2022
<i>Coursera</i>	
SQL for Data science.	2021
<i>Coursera, DAVIS University</i>	
Structuring Machine Learning Projects.	2020
<i>Coursera, Deeplearning.ai</i>	
Neural Networks and Deep Learning.	2020
<i>Coursera, Deeplearning.ai</i>	
Tableau Public for Project Management.	2020
<i>Coursera</i>	
Introduction to data science.	2020
<i>Coursera, Autonomous University of Mexico</i>	

TECHNICAL STRENGTHS

Programming	R, Python, Java.
Databases	SQL.
Version control tools	Git, GitHub.
Data Visualization, BI	Power BI, Tableau.
Machine Learning and AI libraries	Pandas, Scikit-learn, Tidyverse, Tensorflow.
Typesetting Document	Latex.

LANGUAGES

English	Advanced.
Spanish	Native.