

JUAN C. S. HERRERA

I have used econometrics, network science, and machine learning to analyze different topics: scoring demobilized guerrilla and paramilitary success in reintegrating into civil life, consumers credit worthiness, change in food consumption using recipes as an approximation to food consumption, and knowledge spillovers and clustering in the organic dairy industry

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EXPERIENCE

PhD Candidate, Professor, Teacher Assistant, Grader
New York University

Aug 2014 – Ongoing

New York, NY, U. S. A.

- Dissertation: Dynamic and Interconnected: Three Essays on Food Networks with Applications to Food Consumption and Production.
- Published 1 paper on a top academic journal in the field.
- Presented at over 3 network science and over 3 social science conferences in Europe and USA.
- Raised over \$104.000 –external– and \$120.000 –internal (NYU)– competitive funding towards my PhD.
- Experience living in different settings: New York, London, Shanghai, Paris.

Credit Risk Analyst, Senior Credit Risk Analyst

Bank of Bogota

Feb 2011 – Jul 2014

Bogota, Colombia

- Analyzed over 3 million clients for over 50 prospecting campaigns for single and multi-portfolio credit offers: credit card, car loans, educational credit, home mortgage, etc. This included consulting external databases (Experian/Transunion)
- analyzed databases of over 900million credit card purchases to infer risk based on purchases.
- Programmed automatized reports on Portfolio Quality Index: Weekly, monthly, quarterly, yearly.
- Programmed, tested, and validated internal scoring models (probit / logit) to score clients' credit history

Quantitative Researcher

High Commissioner for Demobilization and Reintegration of Illegal Armed Forces

Oct 2008 – Feb 2011

Bogota, Colombia

- Used Econometric models to study quantitative databases for over 50.000 ex-combatants from paramilitary and guerrilla forces to determine the educational, psychological, and health factors that had an impact on their reintegration into civil life
- Worked on reports to support the formulation of policies for the program. These reports draw on data analysis and fieldwork with participants to gain a deeper understanding of their conditions and challenges.

Research Assistant

Universidad de los Andes, Center for Economic Studies

Oct 2008 – May 2009

Bogota, Colombia

- Researched Colombian legislature on New Industrial Policy
- Researched academic publications on the advantages and disadvantages of New Industrial Policy

EDUCATION

PhD Food Studies and Food Management

New York University

Aug 2019 (expected)

M.A. Social Anthropology

Universidad de los Andes

May 2008

B. Sc. Economics

Universidad de los Andes

May 2010

B.A. History

Universidad de los Andes

Jan 2006

COURSES

Complex Networks: Theory, Methods, and Applications

Lake Como School of Advanced Studies

May 2018

Social Network Analysis and Advanced Social Network Analysis

University of Michigan, ICPSR Summer School

June-July 2015

SKILLS

- **Quantitative Techniques:** Econometrics, Network Science, Machine learning: classifiers, text as data, image recognition, data management. Data visualization. GIS. web scraping
- **Programming Languages :** R, Python, SQL, SAS, LaTeX
- **Software/Tools:** Github, Google Colab, Jupyter, AWS, Gephi, Ucinet, Pajek, LaTeX

LANGUAGES

English
Spanish
French

