

JUAN C. S. HERRERA

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

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📍 New York, NY

🌐 [linkedin.com/in/juancsherrera](https://www.linkedin.com/in/juancsherrera)

🐙 github.com/juancsherrera

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

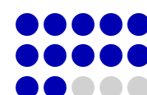
📅 June-July 2015

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



PUBLICATIONS

Peer Reviewed Papers

- Sánchez Herrera, Juan Carlos and Carolyn Dimitri (2019). "The Role of Clustering in the Adoption of Organic Dairy: A Longitudinal Networks Analysis between 2002 and 2015". In: *Sustainability* 11.6. ISSN: 2071-1050. DOI: 10.3390/su11061514. URL: <https://www.mdpi.com/2071-1050/11/6/1514>.

Books

- Sanchez Herrera, Juan Carlos (2008). *From the Casket to the Coffin and the Urn. Meaningful Changes in the funerary practices. Bogotá 1910 - 2007*. Bogota, Colombia: Universidad de los Andes.

Conference Proceedings

- Herrera, Juan C. S. and Carolyn Dimitri (2019). "The Development of the Organic Dairy Supply Chain in the U.S.A 2002-2015. A Network Science Approach". In: *Proceedings of the 7th International Conference on Complex Networks and Their Applications, December 11-13, University of Cambridge, U.K.*

Manuscripts under preparation

- S. Herrera, Juan C. (2019a). "6,000 recipes over 40 years. The evolution of food recipes in Colombia, 1977-2017".
- – (2019b). "The Contribution of Network Analysis to the Study of Food Recipes. A Review Paper."
- – (2019c). "The Development of the Organic Dairy Supply Chain in the U.S.A. 2002-2015. A Network Science Approach."

Other Publications

- Herrera, Juan C. S. (2013). *Paul Gauguin, The Wandering Brush in Arcoiris*. Desk Calendar.
- – (2012). *Cities Depicted by Artists*. Desk Calendar.
- – (2011). *Self Portraits: A Retrospective*. Desk Calendar.
- – (2010). *Skyscrapers and Megaprojects*. Desk Calendar.
- – (2009). *World Airports*. Desk Calendar.
- – (2008). *The Wonders of the World*. Desk Calendar.

PRESENTATIONS

- 2019: Taste Does Not Endure. Latin American Networks Conference LANET 2019 August 5 -9. Universidad de los Andes, Cartagena, Colombia
- 2018: The Development of the Organic Dairy Supply Chain in the U.S.A 2002-2015. A Network Science Approach. The 7th International Conference on Complex Networks and Their Applications - December 11-13, University of Cambridge, U.K.
- 2018: Inferring temporal networks based on spatial localization. An application to organic dairy production in the USA: 2002-2015. The Connected Past 2018 - December 6-7, University of Oxford, U.K.
- 2018: Dynamic and Interconnected. A Network Analysis of Organic Dairy in the United States of America, 2002-2016. NYU Food Studies – U. of Toronto Culinary Research Centre Exchange - August 30-31, New York University, New York.
- 2018: The Dynamics of Food Recipes. 6,000 Recipes Over 40 years. Complex Networks: Theory, Methods, And Applications. Lake Como School of Advanced Studies - May 14-18. Lake Como School of Advanced Studies, Italy.
- 2017: Digital Humanities in Food Studies Research: Methodology to use recipes to approximate food consumption. AFHVS/ASFS Oxyfood 2017. Occidental College, Los Angeles, CA.