

**JUAN C. S. HERRERA**  
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## **Education**

2020 (expected): PhD. Food Studies. New York University.

Dissertation Title: Dynamic and Interconnected: Three Essays on Food Networks with Applications to Food Consumption and Production. Chair: Dr. Carolyn Dimitri.

2018 (May 14-18) Complex Networks: Theory, Methods, and Applications. Lake Como School of Advanced Studies, Como, Italy.

2015 Advanced Social Network Analysis. ICPSR. University of Michigan, Ann Arbor, MI, U.S.A.

2015 Social Network Analysis. ICPSR. University of Michigan, Ann Arbor, MI, U.S.A.

2008 M.A. Social Anthropology. Universidad de los Andes, Bogotá, Colombia.

2010 B.A. Economics. Universidad de los Andes, Bogotá, Colombia.

2006 B.A. History. Universidad de los Andes, Bogotá, Colombia.

## **Academic and Professional Experience**

2015-2020: New York University

Instructor of Record:

2020 Research in Food Studies (undergraduate)

2020 Essentials of Cuisine (undergraduate)

2019 Essentials of Cuisine (undergraduate)

2017 Food and Identity (undergraduate)

Teaching Assistant:

2020 Organic and Sustainable Agriculture Policy (graduate)

2019 Network Analytics (graduate) – NYU Shanghai - Stern Business School

2015 Global Food Cultures: Mexico (graduate)

Grader:

2019 Cracking the Code: Understanding Research in Health and Development (undergraduate)

2019 Food Policy (graduate)

2017 Food Policy (graduate)

2011-2014: Bank of Bogotá, Bogotá, Colombia. Senior Credit Risk Analyst Credit Card (2013 – 2014).  
Credit Risk Analyst: Consumer Loans (2011-2013).

2008-2011: Office of the President, High Commissioner for Demobilization and Reintegration of Illegal Armed Forces, Bogotá, Colombia. Quantitative Researcher for the Social Reintegration Unit.

2007-2009: Universidad de los Andes, Bogotá, Colombia.

2008 - 2009. Research Assistant, Center for Economic Studies CEDE. Research Project: New Industrial Policy in Colombia.

2007 - 2008. Teacher Assistant, Department of Anthropology.

## **Scholarships, Grants, and Awards**

2020: AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society. Student Award. \$1,000  
 2019: NYU Steinhardt Doctoral Research and Travel Grant. \$1,326  
 2019: NYU Summer Dissertation Writing Workshop. NYU Paris. \$2,250  
 2019: Association for the Study of Food Studies. Student Travel Grant. \$500 (declined)  
 2018: NYU Student Senators Council Conference Funding. \$850  
 2018: NYU Global Research Initiative. NYU Shanghai. \$6,750  
 2018: NYU Student Senators Council Conference Funding. \$700  
 2018: NYU Global Research Initiative. NYU London. \$6,750  
 2017: Honorable Mention. NYC Digital Humanities Graduate Student Digital Project Awards  
 2017: NYU Steinhardt Pre-dissertation Conference Funding. \$500  
 2017: Tinker Field Research Grant. Tinker Foundation. \$2,000  
 2014 - 2019: NYU PhD Fellowship. \$102,500  
 2014: Colciencias Doctorados en el Exterior \$102,000 (6/2014 Exchange rate)  
 2014: Colfuturo \$50,000 (declined)  
 2008: Laureate Master's Thesis, Published by Universidad de los Andes.

### **Invited Talks and Conference Presentations**

2020: Using Network Science to Identify Trends in Food History. Sweeteners and Animal Proteins in Developing Countries: Colombia, 1977-2017. INSNA (International Network for Social Network Analysis), Sunbelt 2020. Paris, France. June 2 -7. (Canceled due to COVID-19)  
 2020: Sustainable Recipes. A Food Recipe Sourcing and Recommendation System to Minimize Food Miles. NYU Steinhardt, 8th Annual Research and Scholarship Showcase. New York. April 22  
 2020: Why Aren't We Cooking AI Recipes? AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society, New York, NY, February 7-8.  
 2020: Farm2Recipe, Connecting Food Recipes to Local and Organic Products. A Network Science approach. NetSci-X Conference 2020, Tokyo, Japan, January 20-23.  
 2019: Taste does not endure: The dynamics of ingredient pairings, Colombia, 1977-2017. Latin American Conference on Complex Networks, LANET-2019, Cartagena, Colombia. August 5-9  
 2019: Using Network analysis to understand the dynamics of the organic dairy sector since the inception of the 2002 organic regulation. University of Connecticut. Department of Agriculture and Resource Economics. ARE seminars. Connecticut, USA, March 8  
 2019: Network analysis research methods in food studies. New York University, Food Studies. Food Studies Research Methods. New York, NY, April 11  
 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, 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 Culinaría Research Centre, New York University, NY  
 2018: The Dynamics of Food Recipes. 6,000 Recipes Over 40 years. Complex Networks: Theory, Methods, And Applications. 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

### **Languages:**

Native Spanish, (fluent) English, Intermediate French, Basic 普通话。

### **Technology / Skills**

Programming Languages:

Python: Advanced: Network science, data visualization, web scraping, web crawling. Pandas, NumPy, NetworkX, Nxviz, Scikit, MySQL, OpenCV.

R: Advanced: Data management, network analysis, data visualization, GIS, web scraping, machine learning (Naïve Bayes, kNN, SVM, MCMC simulations), RMySQL

SAS: Advanced: 3 years programming experience

SQL: Advanced: 7 years programming experience

LaTeX: Intermediate

Software:

Github, Google Colab, Amazon AWS, R Studio, Jupyter Notebook, Github, SAS Enterprise, MySQL, PL/SQL Developer, STATA, SPSS, Gephi, Ucinet, Pajek, Microsoft Office, Google Sheets/Docs

## **Publications**

### *Published work*

2020. Sweetness and Networks: Sugar in Contemporary Colombia. *in* Bentley, et. al. Practicing Food Studies. New York: NYU University Press. [Accepted, In Press]

2020: Why Aren't We Cooking AI Recipes. AAAI/ACM Conference on AI, Ethics, and Society. Student Track. Extended Abstract

2019: The Role of Clustering in the Adoption of Organic Dairy: A Longitudinal Networks Analysis between 2002 and 2015. *Sustainability* 2019, 11(6), 1514; <https://doi.org/10.3390/su11061514>

2018. The Development of the Organic Dairy Supply Chain in the U.S.A 2002-2015. A Network Science Approach. *in* Complex Networks 2018. The 7th International Conference on Complex Networks and Their Applications, Book of Abstracts Eds. Hocine Cherifi, et. al. <https://drive.google.com/file/d/1MJW9uuOPjclV0yA9OeKPIsHpj88DX8Mq/view>

2008: Del Catafalco al Ataúd y la Urna: Cambios Significativos en las Prácticas Funerarias. Bogotá 1910-2007 (From the Casket to the Coffin and the Urn. Meaningful Changes in the funerary practices. Bogotá 1910 – 2007). Bogotá: Universidad de los Andes.

### *Pre-Prints*

2020. Sustainable Recipes. A Food Recipe Sourcing and Recommendation System to Minimize Food Miles. arXiv <https://arxiv.org/abs/2004.07454>

### *Manuscripts in preparation.*

2020. Why Aren't We Cooking AI Recipes. A Review Paper. Target Journal: Nature Food / Gastronomica

2020. The Contribution of Network Analysis to the Study of Food Recipes. A Review Paper. Target journal: Appetite

2020. Taste does not endure: The dynamics of ingredient pairings, Colombia, 1977-2017. Target journal: Scientific Reports / PLOS ONE

2020. The Development of the Organic Dairy Supply Chain in the U.S.A 2002-2015. A Network Science Approach. Target journal: Computational Social Networks

### *Non-academic publications*

2013: *Paul Gauguin, The Wandering Brush* in *Arcoiris* Desk Calendar. Bogotá: Dorados Gráficos.

2012: “Cities Depicted by Artists” in Sánchez, Juan Carlos, Bernal, Magda et. al. *Cities Depicted by Artists*, Acuarela Desk Calendar. Bogotá: Dvinni S.A. – Agendas Empresariales S.A.

2011: “Self Portraits: A Retrospective.” en Sánchez, Juan Carlos, Mendoza Dávila, Guillermo et. al *Self Portraits: A Retrospective*. Acuarela Desk Calendar. Bogotá: Dvinni S.A. – Agendas Empresariales S.A.

2010: “Skyscrapers and Megaprojects” in Sánchez, Juan Carlos, Correal, Fernando, Quijano, Juan Carlos et. al *Skyscrapers and Megaprojects*. Desk Calendar Obras de Arte vol. XVIII. Bogotá: D’vinni S.A.

2009: “World Airports” in Sánchez, Juan Carlos, Correal, Fernando, Quijano, Juan Carlos et. al *World Airports*, Desk Calendar Agendas Obras de Arte vol. XVII. Bogotá: D’vinni S.A.

2008: “The Wonders of the World” in Sánchez, Juan Carlos, Correal, Fernando, Quijano, Juan Carlos et. al. *The Wonders of The World*, Desk Calendar Agendas Obras de Arte vol. XVI. Bogotá: D’vinni S.A.