
JOSÉ BAYOÁN SANTIAGO CALDERÓN

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Education

2019	PhD Economics	Claremont Graduate University
2015	MA Economics	Claremont Graduate University
2014	BA Economics	Southwestern University

Appointments and Employment

Research Economist · Full-time

[Analysis & Research Group](#)

National Economic Accounts Directorate 2021 – Present
U.S. Bureau of Economic Analysis

Working on topics related to the digital economy and measuring intangible assets (e.g., software, data).

Sr. Scientist II · Contract

[Pumas-AI](#) 2018 – Present

Work on the development of components for the pharmaceutical modeling and simulation platform and in the consulting services branch for statistical analysis.

Postdoctoral Research Associate · Full-time

[Social & Decision Analytics Division](#)

Biocomplexity Institute & Initiative 2019 – 2021
University of Virginia

Worked on multiple projects with government partners including:

- National Center for Science and Engineering Statistics ([NCSES](#))
 - Measuring the Scope and Impact of Open Source Software
 - [Skilled Technical Workforce](#)
- Defense Advanced Research Projects Agency (DARPA)
 - Computational Simulation of Online Social Behavior ([SocialSim](#)) – [Summary](#)
- Arlington County Police Department ([ACPD](#))
 - Evaluation of the Arlington Restaurant Initiative

Assisted the infrastructure team on helping the team best use UVA computing resources (e.g., high-performance computing) and best practices (e.g., version control). Served as project lead and instructor for the Data Science for the Public Good Young Scholars Program ([DSPG](#)).

Data Scientist · Contract

Residential Energy and Water Intelligence (Res-Intel)

2016 – 2018

Conducted a [program evaluation](#) of the California Advanced Home Program (CAHP) commissioned by Southern California Edison and developed the module for [residential benchmarking](#).

Dissertation

José Bayoán Santiago Calderón. 2019. “On Cluster Robust Models.” PhD diss., Claremont Graduate University. DOI: [10.5642/cguetd/132](https://doi.org/10.5642/cguetd/132)

Selected Research

- J. Bayoán Santiago Calderón, Guci Ledia, Gizem Korkmaz, Carol A. Robbins, and Brandon L. Kramer. 2022b. *Valuing the U.S. Data Economy Using Machine Learning and Online Job Postings*. WP2022-13. Washington, DC: Bureau of Economic Analysis.
- J. Bayoán Santiago Calderón, Guci Ledia, Gizem Korkmaz, Carol A. Robbins, and Brandon L. Kramer. 2022a. *Measuring the Cost of Open Source Software Innovation on GitHub*. WP2022-10. Washington, DC: Bureau of Economic Analysis.
- Christopher Vincent Rackauckas, Yingbo Ma, Andreas Noack, Vaibhav Dixit, Patrick Mogensen, Simon Byrne, Shubham Maddhashiya, José Bayoán Santiago Calderón, Joakim Nyberg, Jogarao V.S. Gobburu, and Vijay Ivaturi. 2020. *Accelerated Predictive Healthcare Analytics with Pumas, A High Performance Pharmaceutical Modeling and Simulation Platform*. Preprint. Pharmacology and Toxicology. DOI: [10.1101/2020.11.28.402297](https://doi.org/10.1101/2020.11.28.402297)
- José Bayoán Santiago Calderón. 2020. “Econometrics.jl.” *Proceedings of the JuliaCon Conferences* 1 (1): 38. DOI: [10.21105/jcon.00038](https://doi.org/10.21105/jcon.00038)