

# FRANCO CALLE

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## ABOUT ME:

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**Programming:** Proficient in Python, Spark, Julia, AWS, R, Git, JavaScript, Linux, SQL; Basic: Matlab  
**Analytic Skills:** Causal Inference, Demand Estimation, Market Design, Bayesian Theory, ML, Big Data.  
**Computing Skills:** Generative AI, Git, Parallel Computing, AWS, EMR, S3, EC2, Gis

## EXPERIENCE

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### PhD Student - Personal projects *Jun 2020- present*

- Created a research team in collaboration with Peruvian government to build statistics that will inform the discussion and training of 1800 elected officials of municipal elections 2022.
- Used LLMs and prompt engineering to classify expenses in physical capital of utility companies.
- Estimated demand and supply for of water utility sector using state of the art methods in Economics

### PhD Summer Internship - Amazon *Jun 2024 - Sep 2024*

- Estimated causal ML and structural models to assess the profitability of Amazon's Buy Now Pay Later leveraging extensive item-level order data.
- Designed targeting strategy based on heterogeneous effects to optimize profitability across regions.
- Used big data tools and cloud services, including Spark, AWS, S3, EC2, and EMR, to process and analyze large-scale datasets, ensuring scalable model deployment.

### Economist - World Bank (Contract) *Nov 2023 - Jan 2024*

- Integrated big data, weather, and nightlight variations to predict real-time individual income, using ML.
- Started conversations to scale up income prediction to Colombia and Ecuador.

### Research Specialist, Princeton University-NBER-ConsiliumBots *Jan 2018-2020*

- Leded team to build a Chatbot that provided info. about returns to higher ed. using AI and Demand Models.
- Constantly Re-trained AI parameters of Chatbot on a cluster using live data stored in JSON files.
- Deployed Chatbot in 3 countries and helped more than 50 000 students make informed decision.

### Research Associate, Innovations for Poverty Action - Peru *Jul 2017 - Dec 2017*

- Supervised intervention of Randomized Control Trial that provided higher ed. info. to kids in Peru.
- Estimated RCT results and wrote a 150p report delivered to the Department of Labor of USA.
- Results of the project scaled up at the national level in Peru and now helps millions of students.

## EDUCATION

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PhD. Economics (all but dissertation) - The University of Chicago - Booth *2020 - present*  
MBA - Booth School of Business, The University of Chicago *2023 - present*  
BS. Economics - Pontifical Catholic University of Peru *2011 - 2016*

## WORKING PAPERS AND PROJECTS

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- Term Limits and the Spatial Allocation of Capital by the Public Sector
- Partisan Colleges and Political Donations. (submitted) *With E. Rubio* *2023*
- Screening and Recruiting Talent At Teacher Colleges. (submitted) *With C. Neilson and S. Gallego* *2020*

## AWARDS AND HONORS

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Weiss Fund - Research Grant *17 900 USD*  
Booth School of Business - Research Grant *10 000 USD*  
Schmidt Futures - NYU Computational Economics Fellowship *5 000 USD*  
First of class Economics and Social Sciences in PUCP 2016