

Erick Ore Matos

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EXPERIENCE

• Research Assistant

Stanford Institute for Economic Policy Research

07/2023 – Present

- I worked with large healthcare-related administrative datasets related to the Veterans Affairs
- I wrote SQL pulls to extract databases, and related programs to merge and check data sets
- I implemented causal-effect methodologies designed by the Principal Investigators of several projects to answer research questions

• External research consultant

National Consumer Protection Authority (Indecopi)

02/2023 – 06/2023

- I developed a tool to increase the probability of detection of collusion among companies in government procurement
- This tool involved machine learning algorithms, economic theory intuitions on collusive behaviors, and research on the relevant previous anti-competitive practices that were successfully detected

• Associate

Apoyo Consulting Firm - Analytics

03/2020 – 07/2022

- I worked as the methodological head of the team. My main work was to explore and implement methodologies required by the ongoing projects.
- I worked on at least 20 projects with private and public institutions to improve their operations using structured and unstructured data, from which I lead 5

• Monetary policy analyst

Central Reserve Bank of Peru

04/2016 – 03/2020

- I proposed and implemented several methodologies to improve the forecast on critical macroeconomic aggregates. These forecasts were used to make critical monetary policy decisions
- I made reports of specific topics required by the bank board on topics related to the financial system
- I compiled the Peruvian monetary statistics
- I wrote several reports required as input to the monetary policy design
- I lead a project to use the credit bureau data to monitor the financial system
- I started helping with a project to change the methodology of the compilation of monetary statistics and ended up leading it

• Intern

Apoyo Consulting Firm

08/2014 – 12/2015

- I assisted in data analysis projects and economic research tasks
- The topics were related to economic competence analysis and project evaluation
- I helped implement and estimate models to assess the economic impact of mitigation policies in Peru

EDUCATION

• National University of San Marcos

Bachelor in Economics

2011 – 2016

RESEARCH

- **Assessing the impact of credit de-dollarization measures in Peru** Lima, Peru
Central Reserve Bank of Peru 2019
 - I processed information required to analyze credit behavior under de-dollarization policy, I processed the credit bureau to obtain relevant policy variables
 - I searched the literature on the topic, such as the causal econometric and impact evaluation, and I explored the available methodologies to evaluate the effects of the studied policy
 - I proposed and implemented the strategy to measure the impact of the de-dollarization policy at the firm level, using a quasi-experimental method
- **Banks networks and systemic risk due to liquidity shocks** Lima, Peru
Central Reserve Bank of Peru 2020
 - I reviewed the relevant literature on the topic and I identified the state of the research on the topic, and how it could be applied to the liquidity risk topic
 - I proposed the main methodology to evaluate the liquidity risk, adapting existing methods from the graph theory and network structure to evaluate the potential contagions in financial entities due to solvency
 - I performed several tests on the methodology implementation to prove the robustness of the conclusions

WORKING PAPERS

- **Back to Normal? Strategic Pricing After COVID-19 in Retail Gasoline**
 - I analyzed how competitive dynamics shifted in Peru's gasoline market during and after COVID-19 using data from mandatory price reporting system
 - I employed difference-in-difference and triple difference approaches to identify strategic interactions between major retail chains
 - I identified evidence of price coordination mechanisms through exact price matching between retail chains
 - I demonstrated distinct patterns between regular and premium gasoline markets in price coordination
 - I processed daily price data from over 200 gas stations in Lima metropolitan area
- **Credit and business cycles, searching dependencies**
 - Credit and business cycles, searching dependencies
 - Developed a novel methodology to analyze periods of interdependence between credit and business cycles
 - Implemented a Markov-Switch Kalman Filter framework to identify cycle interactions
 - Analyzed data from six countries between 1970Q1 and 2017Q4
 - Identified stronger interdependence between cycles before inflation-targeting policies

TEACHING

- **Teacher assistant - Financial econometrics** Lima, Peru
National University of San Marcos 2018
- **Teacher assistant - Cross section and panel data econometrics** Lima, Peru
National University of San Marcos 2017
- **Teacher assistant - Advanced macroeconomics** Lima, Peru
National University of San Marcos 2015
- **Teacher assistant - Advanced mathematics and dynamic programming** Lima, Peru
National University of San Marcos 2013

PROGRAMMING SKILLS

- **Python:** Advanced
- **Stata:** Advanced
- **Matlab:** Advanced
- **Eviews:** Advanced
- **QGIS:** Advanced
- **Docker:** Advanced
- **PowerBI/DAX:** Advanced
- **R:** Intermediate
- **SQL:** Intermediate

HONORS AND AWARDS

- **Annual Award - Innovation** 2021
Apoyo Consulting Firm
 - As part of a recently created department, I continuously contributed to proposing new strategies to solve clients' requirements on ongoing projects.
 - I collaborated with other teams inside the firm to give feedback and support on the strategies they planned to implement on the data-management side.
- **Employee of the month** 03/2019
Central Bank of Peru
 - It was a recognition for the novelty work I did by exploring the potential uses of the credit bureau information.

VOLUNTEER EXPERIENCE

- **Mentor** 07/2024-08/2024
Econthaki
 - I helped three mentees to propose research questions by suggesting a literature review and weekly feedback sessions.
- **Teacher assistant** 2016
Crea+
 - I helped as a primary school teacher assistant during weekends in Lurin, Lima.
 - I taught math-related topics to 5th-grade students by supporting them in the problems they couldn't solve during regular classes.

CERTIFICATIONS

- **Machine learning scientist** 2021
DataCamp
- **Model-based monetary policy analysis and forecasting** 2018
CEMLA
- **Evaluation of public programs** 2018
Grupo de Análisis para el Desarrollo
- **Advanced economics summer course** 2016
Central Reserve Bank of Peru

ADDITIONAL INFORMATION

Languages: Spanish (Native), English (Proficiency level), Quechua (Basic)
Hobbies: Music, Drumming (Cardinal Calypso Drummer 2023-2025)