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

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 (Cardynal Calypso Drummer 2023-2025)