# Luis Palomino

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#### **EDUCATION**

#### Universidad Nacional Mayor de San Marcos

Lima, Peru

B.A. in Economics | Ranked in the top quintile of the class

2016

### WORK EXPERIENCE

### **Economics Consultant - Research Department**

May 2020 - Present

Inter-American Development Bank

Remote, part-time

Supervisor: Juan Pablo Chauvin, Ph.D (Dec 2020 - Present)

- · Generation and analysis of high-frequency indicators: mobility, visits to points of interest and migration
- Processing of geo-referenced data of mobile phones in Latin American and Caribbean using AWS
- Implementing the AWS architecture to process mobile phones data obtained through the Data Development Partnership Supervisor: Julián Cristia, Ph.D (May 2020 - Apr 2021)
  - · Analysis and discussion of a pilot to promote the use of the Conectaldeas platform in Chile
  - · Supported the implementation of a field experiment (RCT) to promote math learning using the ConectaIdeas platform in Peru
  - · Analysis and discussion of visits to schools using data at the geohash level in Chile
  - · Processing of geo-referenced data of mobile phones in Latin American and Caribbean using Amazon Web Services (AWS)

#### Senior Research Assistant - Macroeconomics and International Policy

Aug 2017 - Feb 2021

Research Center of Universidad del Pacífico

Lima, Peru

Supervisor: Bruno Seminario, Ph.D.

- Led the coordination of research projects with multidisciplinary teams
- · Prepared research proposals, drafted research papers, reports, and presentations
- · Designed algorithms for computer simulations
- Processed and analyzed satellite and geo-referenced information
- Processed and analyzed different types of data employing advanced econometric methods

#### Senior Research Assistant - Marketing Group

Jan 2016 - Dec 2019

Universidad Carlos III de Madrid

Remote, part-time

Supervisor: Jaime Rivera, Ph.D.

- Verification of hypotheses of theoretical models using different statistical methods
- · Instrumentalization of theoretical model variables using data from primary or secondary sources
- Design of surveys to executives of companies that operate in different industrial sectors
- Literature review and development of theoretical research frameworks

#### Internship - Macroeconomic Models Department

Jul 2015 – Dec 2015

Lima, Peru

Supervisor: Marco Ortiz, Ph.D.

Central Bank of Peru

- In charge of analyzing and programming algorithms to solve Dynamic and Stochastic General Equilibrium Models
- Supported research staff in drafting academic articles
- Updated the Quarterly Projection Model database and running the General Equilibrium Model with Dollarization

## TEACHING EXPERIENCE

# Teaching Assistant - Department of Economics (undergraduate)

Aug 2018 - Present

Universidad del Pacífico

Lima, Peru

- International Macroeconomics Professor: Marco Ortiz (2020-I, 2020-II, 2021-I, 2021-II, 2022-I)
- Advanced Macroeconomics Professor: Marco Ortiz (2018-II, 2019-I, 2019-II, 2020-I)
- Economic Growth Professor: Marco Ortiz (2019-I, 2019-II)
- Introductory Macroeconomics Professor: Jorge Marcelo Franco (2018-II)

## **Teaching Assistant - Faculty of Economic Sciences (undergraduate)**

Mar 2016 - Jul 2017

Universidad Nacional Mayor de San Marcos

Lima, Peru

- Advanced Macroeconomics Professor: Juan Mendoza (2016-I, 2017-I)
- International Monetary Theory Professor: Juan Mendoza (2016-II)
- Advanced Microeconomics Professor: Derry Quintana (2016-II)

#### **PUBLICATIONS**

### **Papers**

"Determinants of the evolution of the number of COVID-19 cases and deaths in Peru: Mobility, geography and economic development" (with Bruno Seminario, Vanessa Berrocal & Analucía Gastiaburú), Apuntes, 91, 4-45, 2022. Forthcoming.

## Working papers

"Estimation of GDP at the subnational level using satellite data of night lights: Peru 1993-2018" (with Bruno Seminario), Universidad del Pacífico, Research Document, 2022. Forthcoming.

"Socioeconomic status and mobility during the COVID-19 pandemic: An analysis of eight large Latin American cities" (with Daniel Aromí, M. Paula Bonel, Julián Cristia & Martín Llada), *Inter-American Development Bank, Working Paper 1184*, 2021.

"How can we promote the use of learning platforms? Results of a pilot study in Chile" (with Elena Arias Ortiz & Julián Cristia), Inter-American Development Bank, Technical Note 2403, 2021. (Original in Spanish)

"The Macro-Economic Effects of Hurricanes in The Bahamas: A Case Study Using Satellite Night Light Luminosity" (with María Alejandra Zegarra, Laura Giles & Mikael Gartner), Inter-American Development Bank, Catalogs and Brochures, 2021

"Impact of Hurricane Dorian in The Bahamas: A view from the sky" (with María Alejandra Zegarra, Juan Pedro Schmid & Bruno Seminario), *Inter-American Development Bank, Technical Note* 1857, 2020.

"Estimation of departmental GDP and analysis of regional inequality in Peru: 1795-2017" (with Bruno Seminario & María Alejandra Zegarra), Inter-American Development Bank, Working Paper 1016, 2019. (Original in Spanish)

#### **Book chapters**

"Concentration of economic activity and population in Peru, 1795-2018" (with Bruno Seminario). In *A search of integral development:* 20 essays on the bicentennial of Peru, Arlette Beltrán, Cynthia A. Sanborn & Gustavo Yamada (editors), Lima: Universidad del Pacífico, 2021. (Original in Spanish)

"Peruvian regional inequality: 1847–2017" (with Bruno Seminario & María Alejandra Zegarra). In *Time and Space: Latin American Regional Development in Historical Perspective*, Daniel A. Tirado-Fabregat, Marc Badia-Miró & Henry Willebald (editors), London: Palgrave Macmillan, 2020.

"Pension coverage in Chile, Colombia and Peru: Demography, migration and labor" (with María Amparo Cruz-Saco, Mirian Gil & Bruno Seminario). In *Globalization in crisis: challenges and opportunities for Latin America*, César Ferrari & David Fernando Varela S. (editors), Bogota: Pontificia Universidad Javeriana. In press. (Original in Spanish)

## RESEARCH IN PROGRESS

"Extractive industries, inequality and welfare in developing countries: Mining industry in Peru" (with Gonzalo Delgado, Álvaro Paredes & Bruno Seminario).

"Development and long-term cycles in Peru, 1700-2020" (with Bruno Seminario & Vanessa Berrocal).

"Evolution of the economic space in Peru since 1795" (with Bruno Seminario & María Alejandra Zegarra).

### **GRANTS**

XIX World Economic History Congress - Paris (1,500 EUR) Research project: Evolution of the economic space in Peru since 1795	2021
Asociación de Bancos del Perú (2,500 USD)  Research project: Main transformation processes of Peruvian society in the 200 years of the Republic	2020
Centro de Estudios sobre Minería y Sostenibilidad (12,000 USD) Research project: Extractive industries, inequality and welfare in developing countries: Mining industry in Peru	2019

### **SKILLS**

Software: Matlab, Stata, Eviews, Python, R, ArcGIS, QGIS, SQL, JavaScript, Julia, Fortran, C++, GitHub, HTML, Excel, Land Computing: Amazon Web Services (S3, Glue, Athena, EMR, SageMaker, Cloud Formation, IAM)

Cloud computing: Amazon Web Services (S3, Glue, Athena, EMR, SageMaker, CloudFormation, IAM)  OTHER TRAINING AND VOLUNTEER ACTIVITIES	
Stanford University & University of British Columbia - Coursera  Game Theory, Game Theory II - Advanced Applications	2021
Instituto de Matemática y Ciencias Afines - IMCA <i>Linear algebra, real analysis</i>	2020
Central Bank of Peru  Macroeconomic Models with Financial Frictions	2015
Pontificia Universidad Católica del Perú (postgraduate) (free student per semester)  Topics in Advanced Macroeconomics, Advanced Macroeconomics, Advanced Microeconomics, Advanced Econometrics	2014-2015
Pontificia Universidad Católica del Perú (undergraduate) (free student per semester)  International macroeconomics, Monetary theory, Econometrics (Cross Section, Time Series), International microeconomics, Financial	2013-2014 l and Banking Economics
Universidad Nacional de Ingeniería (undergraduate) (free student per semester)	2013-2015

#### Volunteer

Crea+ (teaching math for secondary school students)

Seminar on Economic Research, Capital Markets, Macrodynamics

Universidad Nacional Mayor de San Marcos (teaching math and macroeconomics for admitted students)