

Alexandra Carolina Marcos Quispe

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EDUCATION

The University of Chicago

Chicago, IL

M.S. in Computational Analysis and Public Policy

Jun 2027 (Expected)

Coursework: Advanced Stats I and II, CS with Applications I and II, and Mathematics for CS

Honors: Merit Scholarship Recipient (\$25,000)

Pontificia Universidad Catolica del Peru

Lima, Peru

B.A. in Economics

Mar 2020

Honors: Graduated First in Class; Top 5% of Program History (since 1970)

Excellence Award 2019-II - Faculty of Social Sciences

Awarded to the undergraduate student with the highest GPA in the major

SKILLS

Programming Languages: R, Python, SQL (PostgreSQL, SQL Server)

Software: GitHub, Ubuntu, Linux

Spoken Languages: English (Proficient), Spanish (Native)

Certificates: HarvardX – CS50's Introduction to Computer Science (2025)

Leadership: Mentor at innovation and hackathon programs focused on fintech, social impact, and sustainability (MakerLab, PUCP, Mibanco)

PROFESSIONAL EXPERIENCE

Columbia University in the City of New York

(Remote) Lima, Peru

Senior Project Manager, Consultancy

May 2023 - Jul 2025

- Oversaw end-to-end project management for a six-member team implementing three decision-making algorithms to improve triage and evaluation of whistleblower complaints, operating under agile methodology
- Translated algorithmic logic into non-technical language for three CGR divisions through structured walkthrough sessions, increasing understanding, trust, and effective use of model outputs
- Validated model predictions through random case reviews, demonstrating 85% predictive effectiveness and supporting adoption of algorithm-driven workflows across Sub-Directorate of Citizen Participation

Contraloría General de la República del Perú (CGR)

(Remote) Lima, Peru

Senior Data Scientist, Consultancy

Aug 2022 - Apr 2023

- Developed Python and R algorithms and a real-time web service hosted on EC2 to prioritize 2,000 monthly whistleblower complaints, leveraging DBEaver to connect to EC2 data and building six machine learning models with text embeddings to predict complaint evaluation outcomes
- Improved data processing efficiency by 80% using SQL SIS and contributed to a Python library that cut processing time by 50%

Ministry of Economics and Finances of Peru (MEF)

Lima, Peru

Programming Assistant of Public Budget

Dec 2021 - Dec 2022

- Automated cleaning process for historical revenue data (2010-2020) and forecasted public revenues (2022-2024) using R, contributing to the development of Peru's Multiyear Budget Programming

RESEARCH EXPERIENCE

Machine Learning Applications Handbook

Lima, Peru

Research Assistant (Remote), MSc. Alexander Quispe

Oct 2021 – Nov 2021

- Developed machine learning applications in Python and R for a [practical handbook](#), applying supervised and unsupervised learning models and standard evaluation techniques.

Electoral Politics and Social Media Analysis

Lima, Peru

Research Assistant (Remote), Prof. Alisha Holland, Harvard University

Nov 2020 – Jun 2021

- Developed a Python-based Twitter scraper to collect tweets from presidential and regional candidates across 3 electoral processes in Peru, Colombia, and Ecuador

Exchange Rates, Prices, and Central Bank Communication

Lima, Peru

Research Assistant (Remote), Prof. Alisha Holland, Harvard University

Oct 2018 – Sep 2019

- Analyzed the impact of exchange rate fluctuations on online prices using R and studied BCRP communication's effect on market expectations leveraging Structural Topic Modeling and NLP

AWARDS

Alianza del Pacifico Scholarship Jan 2018

Awarded a full scholarship to pursue an academic exchange program in Colombia.