

EDUCATION

University of Essex

Sep 2019 – Oct 2020

Master of Science in Applied Economics and Data Analysis, with Distinction. GPA 3.97 Colchester, United Kingdom
Thesis title: Social skills, technological exposure and wages

Pontifical Catholic University of Peru (PUCP)

Aug 2010 – Dec 2015

Bachelor's and Licentiate's degree in Economics. Historical top 10% GPA. GPA 3.91 Lima, Peru
Thesis title: Informal employment and multisegmented labor markets in Peru

Graduate School of PUCP

Mar 2014 – Jul 2015

Coursework: Advanced Microeconomics, Advanced Econometrics: Cross Section and Panel Data, Design and Evaluation of Social Policies. GPA 3.67 Lima, Peru

Massachusetts Institute of Technology (MIT)

Sep 2017

Impact Evaluation of Social Programs Online certificate

PROFESSIONAL EXPERIENCE

Research Analyst

Feb 2024 – present

International Monetary Fund (IMF) Washington, DC, United States

- Vigilantly monitor political and economic dynamics across Central American nations, providing insightful analysis and timely updates to inform decision-making processes.
- Strategically tackle both practical and theoretical obstacles in formulating impactful macroeconomic policy recommendations for diverse member nations, ensuring alignment with regional and global economic goals.
- Exhibit proficiency in advanced data management techniques, overseeing the comprehensive collection, organization, and upkeep of crucial data sets for staff reports, internal communications, and multifaceted research initiatives.

Consultant

Mar 2022 – Feb 2024

World Bank Group (WBG) Washington, DC, United States

- Monitored and ensured the quality of lending operations and analytical reports within the Equitable Growth, Finance and Institutions (EFI) in Latin America and the Caribbean (LAC).
- Developed the strategic approach for EFI LAC, outlined the economic and social challenges in the region, and proposed priority actions for the reform agenda.
- Led and supervised a trust fund for analytical and advisory works that supports countries in integrating climate mitigation and adaptation considerations into their policies.
- Expanded the government, private and civil society networks in enhancing tax systems and reducing poverty and inequality.
- Supported research activities, performed regression analysis, drafted reports, and created innovative charts.

Consultant

Aug 2021 – Feb 2022

Inter-American Development Bank (IDB) Lima, Peru

- Developed rigorous methodological notes and research designs to study the effect of a public employment intervention on employability outcomes.
- Conducted quasi-experimental research about the firm subsidy impact on labor demand during COVID-19.
- Extended the analysis of a training program and automation technology on labor market outcomes using large employer-employee data.

Consultant

Nov 2020 – Jul 2021

Ministry of Labor of Peru Lima, Peru

- Explored the wage returns to digital and computer skills using the Survey of Adult Skills (PIAAC).
- Coordinated the successful implementation of the labor market information system in partnership with the International Labour Organization.
- Streamlined the Peruvian labor administrative data flow process, evaluated the quality of payroll data, and developed the official labor market indicators for Peru.
- Coordinated the redesign of labor intermediation services, supervised the formulation of a new national job board, and assessed their suitability for research purposes.

- Reviewed and proposed valuable improvements to the questionnaire, sample design, and fieldwork protocols of an occupational demand survey and a national labor force survey.

Research Assistant

Jul 2017 – Sep 2019

Inter-American Development Bank (IDB)

Lima, Peru

- Engaged in a comprehensive review of the questionnaire design, indicators, manuals of an employer skills survey.
- Led the interviewer training, closely monitored fieldwork progress, and effectively coordinated with local authorities to ensure the proper execution of the survey.
- Ensured data cleanliness, detected errors and inconsistencies of the survey's results, and proposed improvements.
- Formulated compelling research proposals through analyzing surveys and large administrative data at a firm and worker level.
- Performed econometric analysis and robustness checks in papers about cognitive and socioemotional skills, aspirations and expectations, technology adoption, and labor demand.
- Contributed to media-impactful books about youth decision between work and study, human capital and productivity in several countries.
- Conducted a meta analysis of the cost-effective policies that affect youth educational and labor outcomes.
- Provided meticulous responses to peer reviewers for academic papers related to parental gender preferences and human capital investment in children, and job retirement and cognitive abilities for the older adults.
- Organized meetings, created presentations and helped deliver research findings to relevant policymakers to build capacity and strengthen data-driven public policies.

Policy Analyst

Apr 2017 – Jul 2017

Ministry of Education of Peru

Lima, Peru

- Systematized and processed census and administrative data of students, teachers and educational institutions.
- Developed an algorithm that optimizes the public budget allocation given hours worked and capacity constraints for higher education institutions.
- Participated in writing the guidelines and technical standards of higher education policies.
- Coordinated qualitative fieldwork, conducting meetings with school directors to address their human resources needs and demands.

Economic Analyst

Sep 2015 – Dec 2016

Ministry of Production of Peru

Lima, Peru

- Systematized and processed surveys, census, and administrative data at a household, firm and country level.
- Performed quantitative analysis of sector budget allocations, legislative proposals, and private sector development policies at the national and regional levels.
- Wrote research papers, policy briefs, methodological notes, and books about productivity, innovation, informality and firm growth.
- Prepared impactful presentations and effectively delivered research findings.
- Designed questionnaires, indicators, manuals; provided training to interviewers for a national enterprise survey.
- Managed a computable general equilibrium model and social accounting matrix to assess the impact of productive development policies (e.g. tax incentives and technology-transfer instruments) on employment, welfare, GDP, etc.
- Analyzed the potential demand, the cost and benefits, and the public procurement of industrial parks.
- Monitored and evaluated the State purchases from micro and small companies.
- Crafted a cutting-edge household demand system in order to calculate price and income elasticities.

Research Assistant

Jun 2014 – Feb 2015

Pontifical Catholic University of Peru (PUCP)

Lima, Peru

- Analyzed job vacancy data from Peruvian firms using a large administrative dataset.
- Wrote reports on the future job demand for different economic sectors and university degrees, and contributed to university course development.

TEACHING EXPERIENCE

Lecturer at the Department of Economics, PUCP

Lima, Peru

General Economics (undergraduate level)

Mar 2021 – Dec 2021

Supervision of three theses (undergraduate level)

Aug 2021 – Jun 2022

Intermediate Microeconomics (graduate level)

Mar 2022 – Jun 2022

PUBLICATIONS AND WORK IN PROGRESS

- Alvarado, A. and Toledo, K. (2023). Tackling BEPS in the Global South: Evidence from Peru's Tax Reform. *Economic Systems*. <https://doi.org/10.1016/j.ecosys.2023.101122>.
- Alvarado, A., Novella, R., and Rosas, D. (2023). Are we nearly there yet? New technology adoption and labor demand in Peru. *Science and Public Policy*, 50(4), 565–578 <https://doi.org/10.1093/scipol/scad007>.
- Alvarado, A. (2022). *Labor inspection reform impact on informality*. Consorcio de Investigación Económica y Social (CIES). <https://econpapers.repec.org/article/bbjinvic/731.htm>.
- Alvarado, A. (2021). Social skills, technological exposure and wages. Work in progress.
- Alvarado, A., Conde, B., Novella, R., and Repetto, A. (2020). NEETs in Latin America and the Caribbean: Skills, Aspirations, and Information. *Journal of International Development*, 32(8), 1273–1307 <https://doi.org/10.1002/jid.3503>.
- Alvarado, A., Novella, R., Rosas, D., and González-Velosa, C. (2019). *Encuesta de habilidades al trabajo (ENHAT) 2017-2018: Causas y consecuencias de la brecha de habilidades en Perú*. Washington, DC: BID. <http://dx.doi.org/10.18235/0001653>.
- Alvarado, A. (2018). *Informality and Segmentation: Evidence from a self-selection model with entry barriers to formal employment in Peru*. https://doi.org/10.48713/10336_18269.

CONFERENCE PRESENTATIONS

- XXXV Encuentro de Economistas del BCRP 2017 (BCRP, Perú)
- The Economics of Informality Conference 2018 (Universidad del Rosario, Colombia)
- 3rd Conference of the Latin American Network on Economics of Innovation and Entrepreneurship 2019 (CADEP, ID, CINVE/Uruguay, IDB, Paraguay)
- 7th Shadow Conference: The Shadow Economy, Tax Behaviour and Institutions 2021 (Brunel University London, UK)

COMPUTER SKILLS

- Stata, Python, R, MATLAB, L^AT_EX, EViews, GAMS/MPSGE, HTML, Git

LANGUAGES

- Spanish (native), English (fluent)

AWARDS AND HONORS

- Winner of the Research Grant Competition of CIES 2021-II.
- Chevening Scholarship, fully funded by the UK Government for an MSc degree, 2019/2020.
- Ranked at the top 10% of all students who have ever graduated at the PUCP's Economics Department.
- 1st place in the III Research Monographs Competition in Economics of PUCP, 2014.
- 1st place in the VII National Competition of Adventist Schools in Mathematics, 2005.

EXTRACURRICULAR ACTIVITIES

- Co founder and Director at Económica (<https://economica.pe>) during 2014.
- Coordinator of the VII Colloquium of Economics Students of PUCP, 2014.

Last updated: March, 2024