Jaime Andrés Arau Pontones

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Economist with over 10 years' experience in data science, statistical analysis and visualisation, household surveys, and Monitoring, Evaluation, and Learning (MEL) systems. My expertise lies on combining MEL approaches with data science tools such as online dashboards and interactive maps to enhance learning and facilitate ongoing adaptation and accountability of development programmes. By having led the design and implementation of large-scale data collection exercises internationally, I have also gained extensive expertise in project management and training of local teams. My professional experience expands over more than 26 projects across 21 countries worldwide.

🌐 INTERNATIONAL EXPERIENCE

Austria, Brazil, China, Colombia, Ecuador, Ghana, India, Kenya, Madagascar, Malawi, Mexico, Mozambique, Nigeria, Peru, Sierra Leone, South Africa, Uganda, United Kingdom, United States, Venezuela, and Vietnam

🎓 EDUCATION

MSc. In Economic Development and Growth | Lund University and Carlos III de Madrid	2012 - 2014
B.A. Honours in Economics with a minor in Global Studies | University of Ottawa	2005 - 2009

⚙ PERSONAL SKILLS AND COMPETENCIES

Languages	Spanish (native), English (fluent), Portuguese (basic)
Software & Systems	ArcGIS, Google Maps, Google Sheets, HTML 5, KoBoToolbox, Leaflet, MS Excel, NVivo, Power Bi, R, Shiny R, Stata, Survey Solutions, Ubuntu, and Zoho

💼 PROFESSIONAL EXPERIENCE

Independent Data Scientist   2019 - now

- Data visualization, GIS, and interactive dashboards;
- Design frameworks and digital systems to monitor large development programmes;
- Advice on survey implementation internationally;
- Build local capacity to robustly implement data collection exercises

Survey and Data Specialist | Oxford Policy Management. Oxford, UK   2015 - 2019

- Design and implementation of large data collection exercises internationally;
- Development of system and real time dashboards for Data Quality Assurance of household surveys;
- Questionnaire design and CAPI programming.

Project Manager | C-230 CONSULTORES / FUNDACIÓN IDEA. Mexico City, Mexico   2014 - 2015

- Evaluation design and econometric data analysis;
- Training and management of fieldwork teams for data collection exercises.

Summer Intern. Gender diversity unit | INTER-AMERICAN DEVELOPMENT BANK. Washington D.C   2013

- Evaluation design and econometric data analysis.

Monitoring and Evaluation Officer | THE HUNGER PROJECT. Mexico City, Mexico   2009 - 2012

- Design and implementation of MEL Systems; and
- Design, implementation, and analysis of Participatory Rural Appraisals.

Consultant | ASHOKA MÉXICO & CENTRAL AMERICA. Mexico City, Mexico   2010 - 2011

- Evaluation design; and
- Training and management of fieldwork teams for data collection exercises

Analysis of IOM Data on Socio-Economic Integration of Venezuelan Migrants and Regugees The data was collected by IOM's Displacement Tracking Matrix (DTM) in 2019 in 11 countries to understand better the movements, profiles and needs of refugees and migrants from Venezuela in those countries. My roles was to analyze and visualize the data, to define innovative approaches to dynamically present the results (interactive documents), and to provide capacity building in dynamic reports to IOM's team.	2020 - 2020 Venezuela IOM
Urban Poverty Study in Maputo and Beira This study aims to collect quantitative data from 1,600 young people in Maputo City and Beira about their living condictions, employment, time use, and more. My role was to design and deploy CAPI instruments for data collection, to develop real time data quality assurance systems (dashboards and maps) and to train local teams.	2020 - now Mozambique UCPH
Uganda's Education Response Plan (ERP) This programme focus on the implementation and delivery of Uganda's Education Response Plan and its impact on both refugee and host communities. My role was to design an approach and tools to collect data trhough online questionnaires, analyze the data. and to develop interactive dashboards to disseminate the results.	2020 - now Uganda DFID
Interactive Map to Track the Location of 'Health Agents' Trained on COVID19 Prevention OPM's MUVA programme has a cadre of young facilitators trained by the Ministry of Health on the basic messaging for COVID 19 prevention. My role was to develop and interactive digital tool to monitor this nation-wide and to spatially visualize where these 'agents' have been deployed https://www.andresarau.com/shiny/agentesCovid	2020 - 2020 Mozambique MUVA
Mapping Tool for Assessing Risk Factors for Severe COVID-19 OPM has been invited to join the Mozambican Scientific Advisory Group on COVID-19, which aims at providing the Government with evidence-based advice on how to best respond to the pandemic. My role was to use novel geospatial mapping techniques to provide the Government of Mozambique with information at the right spatial resolution http://andresarau.com/shiny/maprisco/	2020 - 2020 Mozambique MoH Mozambique
Dashboard to Track Daily Reported Cases of COVID19 in Mexico A personal and voluntary project to provide citizens with the most up-to-date information on the evolution of the emergency in Mexico. The objective is to make official data more accessible to everyone and facilitate its visualisation. http://andresarau.com/shiny/covid19mx/	2020 - 2020 Mexico Volunteer work
Social and Economic Impact Assessment of Mutation Breading Projects Under the RCA Design, development and deployment of a data management system, including online forms and dashboards, for the monitoring and evaluation of mutation breading projects implemented by the International Atomic Energy Agency (IAEA)	2019 - 2020 Austria IAEA
Rural Sanitation Operational Research (CLTS) Management of the water and sanitation household survey, CAPI coding (Survey Solutions), and design and deployment of quality assurance system for the survey.	2019 - 2020 Malawi UNICEF
Strengthening Local Development in the Highlands and Rainforest Areas Project (PSSA) Training of enumerators, program of CAPI questionnaires (Survey Solutions), and development of quality assurance tools to ongoingly monitor an agricultural survey to assess the impact of PSSA on the livelihoods of Peruvian farming families.	2019 - 2020 Peru IFAD
Enhancing Diagnostics for DFID's Public Finance & Tax Department (PFTD) Design and deployment of an online dashboard to monitor macroeconomic and public finance data to more rapidly identify trends and risks affecting multiple countries, and to develop central policy responses.	2019 - 2019 United Kingdom DFID
Rural Sanitation Operational Research (CLTS) Management of the water and sanitation household survey, CAPI coding (Survey Solutions), design and implementation, training of enumerators, and a quality assurance system for the survey	2019 - 2019 Ghana UNICEF
Decentralized and Community Based Social Action (PROSAS) Design of fieldwork model and georeferenced data collection tools, training of local teams and development of an interactive map to understand the coverage of social protection services in Mozambique https://mapa-social.com/	2019 - 2019 Mozambique UNICEF
Evaluation of UK Partnering for Accelerated Climate Transitions (PACT) Design and implementation of results management systems and online dashboards to track the effectiveness of the programme's in enhancing actions and reducing climate change in target countries https://www.ukpactmel.com/	2019 - now China, Colombia, Mexico, South Africa BEIS
Integrated Dengue Early Warning System Driven by Earth Observations Survey specialist and design of MEL framework to evaluate the impact that early warning systems that use satellite climate forecasting technology have on reducing dengue outbreaks in rural and urban Vietnam. (Survey Solutions)	2018 - 2018 Vietnam UNDP
Financial Inclusion and Women's Empowerment in India's Poorest States (PSIG) Design of systems and tools to assure the quality of a large household survey, build capacity of local teams including enumerators and data managers. (Survey Solutions)	2018 - 2018 India DFID

Working to Improve Nutrition in Northern Nigeria (ORIE III) -Endline Survey design and management, CAPI programming (Survey Solutions), training of enumerators and set up of quality assurance protocols and systems. The evaluation aimed to assess the effect of ORIE at improving the nutritional status of children in Northern Nigeria	2018 - 2018	
	Nigeria	
	DFID	
Living Standards Measurement Study (LSMS) Management of the Living Standards Measurement Study (LSMS) household survey, including listing; CAPI coding (Survey Solutions); and design and implementation of a quality assurance system for the survey.	2017 - 2017	
	Madagascar	
	World Bank	
Kenya Programme Implementation and Beneficiary Satisfaction Survey (PIBS) Design and management of a large-scale data collection to provide independent and rigorous data for the evaluation of PIBS. Development and implementation of a robust data quality assurance system for the survey. (Survey Solutions)	2017 - 2018	
	Kenya	
	World Bank	
Evaluation of the Child Development Programme (CDGP) Survey manager and quality assurance expert for a cash transfer programme for pregnant women and women with children under the age of two. The evaluation aims to assess CDGP's impact on maternal and child health. (Survey Solutions)	2017 - 2017	
	Nigeria	
	DFID	
Female Economic Empowerment in Mozambique (MUVA) Leader of several large data collection activities (Survey Solutions) and monitoring systems intended to assess the impact that MUVA has on securing a brighter economic future for disadvantaged young women in urban areas. Deployment of real time dashboards to monitor the implementation of projects. https://andresarau.shinyapps.io/education_project/	2017 - now	
	Mozambique	
	DFID	
Sierra Leone Secondary Education Improvement Programme (SSEIP) Design and management of a large school survey, development of tools and interactive dashboards to assure the quality of the data and the performance of the field teams. The aim of the survey was to assess the impact of SSEIP on education outcomes. (Survey Solutions)	2017 - 2018	
	Sierra Leone	
	DFID	
Hunger Safety Net Programme II (HSNP II) Survey design and management; design and implementation of an interactive dashboard to monitor and QA fieldwork; instrument design and CAPI programming; training of teams (Survey Solutions)	2017 - 2017	
	Kenya	
	DFID	
Working to Improve Nutrition in Northern Nigeria (ORIE) Survey design and management, CAPI programming (Survey Solutions), training of enumerators and set up of quality assurance protocols and systems. The evaluation aimed to assess the effect of ORIE at improving the nutritional status of children in Northern Nigeria	2015 - 2016	
	Nigeria	
	DFID	
CaSalud Evaluation design and coordination of data collection strategies to assess a National intervention that aims to help solve three of the most pressing challenges in the field of Public Health in Mexico: chronic non-communicable diseases, maternal and child mortality, and prevention disease by age group.	2014 - 2014	
	Mexico	
	Carlos Slim Foundation	
Climate Change and Indigenous People of the Amazon Evaluation design and extensive data analysis of a project aimed to promote training and effective participation of indigenous communities in the process of consultation, negotiation and decision-making on climate change issues in the Amazon basin.	2013 - 2013	
	Brazil, Ecuador, Peru, United States	
	IDB	
Participatory Rural Appraisal Participatory project aimed to enhance indigenous women's full political, economic, and social participation in their communities. Training of local volunteers for them to assess development priorities, design long-term development plans, initiate local campaigns, conduct direct activities such as income generating projects with local women's enterprises, and advocate for access to critical resources.	2012 - 2012	
	Mexico	
	The Hunger Project	

CONFERENCES AND SEMINARS

European Commission & Government of Cuba | Havana, Cuba   2014 - 2015

Lecturer at Seminar on Impact Evaluation

FELLOWSHIPS AND ADDITIONAL INFORMATION

European Commission Erasmus Mundus Fellowship   2012 - 2014