



# Jaime Andrés Arau Pontones

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Economist with over 12 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 33 projects across 23 countries worldwide.



## INTERNATIONAL EXPERIENCE

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



## EDUCATION

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



## PERSONAL SKILLS AND COMPETENCIES

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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

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<b>Independent Data Scientist</b>	2019 - now
<ul style="list-style-type: none"><li>• Data visualization, GIS, and interactive dashboards;</li><li>• Design frameworks and digital systems to monitor large development programmes;</li><li>• Advice on survey implementation internationally;</li><li>• Build local capacity to robustly implement data collection exercises</li></ul>	
<b>Survey and Data Specialist   Oxford Policy Management.</b> Oxford, UK	2015 - 2019
<ul style="list-style-type: none"><li>• Design and implementation of large data collection exercises internationally;</li><li>• Development of system and real time dashboards for Data Quality Assurance of household surveys;</li><li>• Questionnaire design and CAPI programming.</li></ul>	
<b>Project Manager   C-230 CONSULTORES / FUNDACIÓN IDEA.</b> Mexico City, Mexico	2014 - 2015
<ul style="list-style-type: none"><li>• Evaluation design and econometric data analysis;</li><li>• Training and management of fieldwork teams for data collection exercises.</li></ul>	
<b>Summer Intern. Gender diversity unit   INTER-AMERICAN DEVELOPMENT BANK.</b> Washington D.C	2013
<ul style="list-style-type: none"><li>• Evaluation design and econometric data analysis.</li></ul>	
<b>Monitoring and Evaluation Officer   THE HUNGER PROJECT.</b> Mexico City, Mexico	2009 - 2012
<ul style="list-style-type: none"><li>• Design and implementation of MEL Systems; and</li><li>• Design, implementation, and analysis of Participatory Rural Appraisals.</li></ul>	
<b>Consultant   ASHOKA MÉXICO &amp; CENTRAL AMERICA.</b> Mexico City, Mexico	2010 - 2011
<ul style="list-style-type: none"><li>• Evaluation design; and</li><li>• Training and management of fieldwork teams for data collection exercises</li></ul>	



## PROJECTS WHICH BEST ILLUSTRATE MY SKILLS AND COMPETENCIES

<b>Accelerating Transport Decarbonization in India</b> ClIFF along with program partners will test the proposition that technology and market-related bottlenecks can be unlocked to demonstrate measurable progress in the shift to electric mobility and signal India's commitment for long-term, sustained emissions reduction in the transport sector. My role was to support the design of the monitoring framework along with its indicators and to develop and implement a data management strategy and dashboards to inform the programme's progress towards its goals.	2021 - now India Children's Investment Fund Foundation
<b>Malawi Longitudinal School Survey</b> The Malawi Longitudinal Schools Survey (MLSS) is the first nationally representative, multi-round sample of primary school conditions, practices and learning outcomes in a low-income country. My role was to develop an online, web-based dashboard for visualization of MLSS data. <a href="http://198.211.96.106/">http://198.211.96.106/</a>	2021 - now Malawi World Bank
<b>Dashboard to monitor COVID-19 in Mozambique</b> The National Institute of Health of Mozambique (INS) is responsible for tracking COVID-19 in the country. Their duty is to track the evolution of the pandemic and to provide updated reports to different Ministries, including the President. My role was to design, program, and deploy an online dashboard that serves as the official site for all the institutions in the country to track COVID 19 <a href="http://infocovid.ins.gov.mz:3838/INS-dashboard/dashboard/Mocambique/">http://infocovid.ins.gov.mz:3838/INS-dashboard/dashboard/Mocambique/</a>	2021 - 2022 Mozambique Bill & Melinda Gates Foundation
<b>NDC Partnership Monitoring &amp; Evaluation Support</b> Launched at the 22nd Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC) in Marrakesh, the NDC Partnership is a coalition of countries and institutions working together to mobilize support and achieve ambitious climate change goals. My role in the project was to support on the refinement of the full set of indicators to assess the effectiveness of the Partnership in meeting its objectives. I led the conceptual definition of a reporting system, the design of static reports, and online dashboards.	2021 - 2021 United States NDC PARTNERSHIP
<b>Evaluation of MRV aspects of the Beyond the Grid Fund for Zambia and the Edison software platform</b> The Power Africa: Beyond the Grid Fund for Zambia (BGFZ) is an ambitious multi-year program aiming to increase energy access, improve livelihoods and catalyse economic activity in rural and peri-urban areas. My role was to assess and provide recommendations to increase the effectiveness of the Monitoring, Reporting, and Verification Framework (MRVF) as well as the Edison software.	2021 - 2021 Zambia The Swedish International Development Cooperation Agency, NEFCO
<b>Impact Evaluation of Community Conversations in Ethiopia</b> The International Organisation of Migration (IOM) is conducting an impact evaluation of a community based intervention in Ethiopia that aim to raise awareness about the risks of irregular migration. My role was to design the evaluation methodology and to lead on the implementation of a large household survey.	2021 - 2021 Ethiopia IOM
<b>IOM-X Waka Well Campaign To Raise Awareness Towards Safe Migration</b> WAKA Well by IOM X is the International Organization for Migration's (IOM) campaign in West Africa that seeks to prevent exploitation by empowering young people to make informed decisions about their future, both at home and abroad. My role was to analyse and report the impact of the campaign on the Knowledge, Attitudes, and Practices (KAP) of the community towards safe migration. The findings will help to inform the design of the WAKA Well campaign activities in Ivory Coast and the Gambia.	2020 - 2020 Cote d'Ivoire, Gambia IOM
<b>Analysis of IOM Data on Socio-Economic Integration of Venezuelan Migrants and Refugees</b> 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 role 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
<b>Urban Poverty Study in Maputo and Beira</b> This study aims to collect quantitative data from 1,600 young people in Maputo City and Beira about their living conditions, 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 - 2020 Mozambique UCPH
<b>Uganda's Education Response Plan (ERP)</b> 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 through online questionnaires, analyze the data. and to develop interactive dashboards to disseminate the results.	2020 - 2020 Uganda DFID

<b>Interactive Map to Track the Location of 'Health Agents' Trained on COVID19 Prevention</b> 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 an interactive digital tool to monitor this nation-wide and to spatially visualize where these 'agents' have been deployed <a href="https://www.andresarau.com/shiny/agentesCovid">https://www.andresarau.com/shiny/agentesCovid</a>	2020 - 2020
	Mozambique
	MUVA
<b>Mapping Tool for Assessing Risk Factors for Severe COVID-19</b> 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 <a href="https://ins.gov.mz/wp-content/uploads/2020/11/RMCS_2020.pdf">https://ins.gov.mz/wp-content/uploads/2020/11/RMCS_2020.pdf</a>	2020 - 2020
	Mozambique
	MoH Mozambique
<b>Dashboard to Track Daily Reported Cases of COVID19 in Mexico</b> 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. <a href="http://andresarau.com/shiny/covid19mx/">http://andresarau.com/shiny/covid19mx/</a>	2020 - 2020
	Mexico
	Volunteer work
<b>Social and Economic Impact Assessment of Mutation Breeding Projects Under the RCA</b> Design, development and deployment of a data management system, including online forms and dashboards, for the monitoring and evaluation of mutation breeding projects implemented by the International Atomic Energy Agency (IAEA) <a href="https://www.iaea.org/sites/default/files/20/11/social-and-economic-impact-assessment-of-mutation-breeding-in-crops-of-the-rca-programme-in-asia-and-the-pacific.pdf">https://www.iaea.org/sites/default/files/20/11/social-and-economic-impact-assessment-of-mutation-breeding-in-crops-of-the-rca-programme-in-asia-and-the-pacific.pdf</a>	2019 - 2020
	Austria
	IAEA
<b>Rural Sanitation Operational Research (CLTS)</b> 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
<b>Strengthening Local Development in the Highlands and Rainforest Areas Project (PSSA)</b> 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
<b>Enhancing Diagnostics for DFID's Public Finance &amp; Tax Department (PFTD)</b> 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
<b>Rural Sanitation Operational Research (CLTS)</b> 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
<b>Decentralized and Community Based Social Action (PROSAS)</b> 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 <a href="https://mapa-social.com/">https://mapa-social.com/</a>	2019 - 2019
	Mozambique
	UNICEF
<b>Evaluation of UK Partnering for Accelerated Climate Transitions (PACT)</b> 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 <a href="https://www.ukpactmel.com/">https://www.ukpactmel.com/</a>	2019 - now
	China, Colombia, Mexico, South Africa
	BEIS
<b>Integrated Dengue Early Warning System Driven by Earth Observations</b> 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
<b>Financial Inclusion and Women's Empowerment in India's Poorest States (PSIG)</b> 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
<b>Working to Improve Nutrition in Northern Nigeria (ORIE III) -Endline</b> 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
<b>Living Standards Measurement Study (LSMS)</b> 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
<b>Kenya Programme Implementation and Beneficiary Satisfaction Survey (PIBS)</b> 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

<b>Evaluation of the Child Development Programme (CDGP)</b> 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
<b>Female Economic Empowerment in Mozambique (MUVA)</b> 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. <a href="https://andresarau.shinyapps.io/education_project/">https://andresarau.shinyapps.io/education_project/</a>	2017 - now
	Mozambique
	DFID
<b>Sierra Leone Secondary Education Improvement Programme (SSEIP)</b> 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
<b>Hunger Safety Net Programme II (HSNP II)</b> 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
<b>Working to Improve Nutrition in Northern Nigeria (ORIE)</b> 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
<b>CaSalud</b> 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
<b>Climate Change and Indigenous People of the Amazon</b> 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
<b>Participatory Rural Appraisal</b> 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  
Lecturer at Seminar on Impact Evaluation

2014 - 2015



## FELLOWSHIPS AND ADDITIONAL INFORMATION

European Commission Erasmus Mundus Fellowship

2012 - 2014