Jaime Andrés Arau Pontones

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Economist with over 13 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 38 projects across 34 countries worldwide.

🌐 INTERNATIONAL EXPERIENCE

Colombia, Ecuador, Gambia, India, Mexico, Nepal, Peru, South Africa, Turkey, Ukraine, United States, Austria, Brazil, Cambodia, China, Cote d'Ivoire, Ethiopia, India, Kenya, Madagascar, Malawi, Mexico, Mozambique, Nigeria, Peru, Sierra Leone, Tajikistan, Uganda, Ukraine, United Kingdom, United States, Venezuela, Vietnam, and Zambia

🎓 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

Project		
Say on Climate Supporting efforts from partners to focus corporate, investor and Financial Institutions' "net-zero" commitments on short-term targets, by independently grading climate action plans.My role is to design data strategies and online dashboards to track progress towards these goals.	2023 - now	
	India	
	Children's Investment Fund Foundation	
Social Incubator for Female Economic Empowerment MUVA is a a social incubator working since 2015 for the economic empowerment of young people, and in particular women. My role is to design and deploy data strategies to ongoingly monitor and evaluate the impact of MUVA on young women's ability to access the labor market https://dashboard.muvamoz.org/	2023 - now	
	Mozambique	
	MUVA	
Research into Room to Read's Girl's Education Programme COVID Pivot Activities. In response to the COVID-19 pandemic, GEP re-designed activities to continue delivering programmes despite the additional challenges faced by programme participants, their families and local communities. My rol was to support on the design and implementation of a school survey to understand the experience of the beneficiaries during the pandemic and the support provided by RtR. http://andresarau.com/shiny/Room_to_Read/	2022 - 2022	
	Cambodia, India, Nepal	
	Oxford MeasurEd	
Unicef's Blue Dots to support families fleeing the war in Ukraine. Jointly established by UNICEF and UNHCR together with local authorities and partners, 'Blue Dots' are safe spaces along border crossings in neighbouring countries that provide children and families fleeing the war in Ukraine with critical information and services. My rol was to develop a data management system to collect, analyse, and visualize (through online dashboards) data that informs the daily operation of the bluedots.	2022 - 2023	
	Ukraine	
	UNICEF	
Real-Time Assessment of UNICEF's Response to Covid-19 in Euope and Central Asia. The Real-Time Assessment (RTA) addressed UNICEF's ongoing response and response planning to COVID-19 at country level to take stock and inform a forward-looking reflection on the implementation. My rol was to design and deploy and online dashboard to disseminate the the effect of COVID-19 pandemic on basic services, education and social protection, the quality of the related programme responses, while also providing early insights on the outcomes achieved and lessons learned. https://andresarau.com/shiny/unicef-dashboards/rta-covid/	2022 - 2022	
	Tajikistan, Turkey, Ukraine	
	UNICEF	
Accelerating Transport Decarbonization in India CIFF 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	
Malawi Longitudinal School Survey 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. http://143.244.154.61/	2021 - 2022	
	Malawi	
	World Bank	
Dashboard to monitor COVID-19 in Mozambique The National Insitute 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 insitutions in the country to track COVID 19 http://infocovid.ins.gov.mz:3838/INS-dashboard/dashboard/Mocambique/	2021 - 2022	
	Mozambique	
	Bill & Melinda Gates Foundation	
NDC Partership Monitoring & Evaluation Support Launched at the 22nd Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC) in Marrakesh, the NDC Partership 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 effeceiveness of the Partership it 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	
Evaluation of MRV aspects of the Beyond the Grid Fund for Zambia and the Edison software platform 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 sofware.	2021 - 2021	
	Zambia	
	The Swedish International Development Cooperation Agency, NEFCO	

Impact Evaluation of Community Conversations in Ethiopia The International Organisation of Migration (IOM) is conducting an impact evaluation of a community based intervention in Ethiopia that aim to raise awarness 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
IOM-X Waka Well Campaign To Raise Awareness Towards Safe Migration 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
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 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
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 - 2020 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 - 2020 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 https://ins.gov.mz/wp-content/uploads/2020/11/RMCS_2020.pdf	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 Breeding 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 breeding projects implemented by the International Atomic Energy Agency (IAEA) 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	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 - 2023 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

European Commission Erasmus Mundus Fellowship   2012 - 2014