Jaime Andrés Arau Pontones

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Self-employed Data Science consultant with 10 years of experience in the design and implementation of household surveys, online dashboards, interactive maps, and MEL systems. My expertise lies on combining data science with MEL approaches in order to enhance learning and facilitate ongoing adaptation and accountability of development programmes. By having led several large-scale surveys internationally, I have also gained extensive expertise in training teams, quantitative analysis, and data visualisation.

INTERNATIONAL EXPERIENCE

Austria, Canada, Colombia, Cuba, Ghana, India, Kenya, Madagascar, Mexico, Mozambique, Nigeria, Peru, Sierra Leone, Spain, Sweden, United Kingdom, USA, 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 COMPETENCES

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, Zoho

PROFESSIONAL EXPERIENCE

Independent Data Science Consultant & Associate at Oxford Policy Management   2019 **-** present
- 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;

Consultant | Oxford Policy Management, Oxford   2015 - 2019
Survey and data specialist:
- 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   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   2009 - 2012
- Design and implementation of MEL Systems; and
- Design, implementation, and analysis of Participatory Rural Appraisals

Consultant | ASHOKA MÉXICO & CENTRAL AMERICA, Mexico City   2010 - 2011
- Evaluation design; and
- Training and management of fieldwork teams for data collection exercises

WORK AND PROJECTS THAT BEST ILUSTRATES MY SKILLS AND COMPETENCIES

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-ongoing Mozambique OPM/MOH
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 t visualize where where these 'agents' have been deployed. https://www.andresarau.com/shiny/agentesCovid	2020-ongoing Mozambique MUVA/OPM
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 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-ongoing Austria IAEA
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 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 – ongoing Mexico, Colombia, China BEIS
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 Peru IFAD
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 Ghana UNICEF
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 Malawi UNICEF
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 United Kingdom 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 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	2017 – ongoing Mozambique DFID

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/	
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 India DFID
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 Vietnam UNDP/UKSA
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 - 2018 Kenya DFID
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
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 Madagascar 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 and 2018 Nigeria 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 Sierra Leone 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 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 Mexico Carlos S. 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 United States IDB

CONFERENCES AND SEMINARS

European Commission & Government of Cuba	Havana, Cuba Lecturer at Seminar on Impact Evaluation	2016 and 2017

FELLOWSHIPS AND ADDITIONAL INFORMERMATION

European Commission Erasmus Mundus Fellowship	2012-2014