

# Andre Martinez, Senior Data & Digital Consultant

## Overview of Expertise

I have over 12 years of professional experience spanning food security, livelihoods, social enterprise, and education. I have overseen the national scale-up of digital solutions for evaluation along with training programs to ensure the success of complex initiatives. My track record in leading data-driven digital initiatives, designing and implementing evaluation strategies by leveraging quantitative and qualitative methods, and overseeing projects from design to implementation demonstrate my ability to lead teams/projects to success.

## Qualifications & Training

2014 Master of Public Administration from New York University's Robert F. Wagner School of Public Service: Public Policy & Applied Statistics.

2009 Bachelor of Arts with Distinction: Political Science from the University of California, Riverside.

## Project Experience

### Digital Solutions - Decision-support Systems

- United Nations – World Food Programme Pacific Multi-Country Office: oversaw deployment of a remote food security assessment system in 5 countries (Fiji, Samoa, Tonga, Kiribati, and Vanuatu) by utilising a computer assisted telephone interview approach. Led the implementation of a suite of digital solutions to enable streamlined collection, analysis, and visualisation of key indicators, which included development of an engine to automate the data lifecycle.
- United Nations – World Food Programme, Cambodia Country Office: oversaw the development of Cambodia's national disaster risk management system along with a capacity strengthening plan, scaling a suite of tools for data collection, management, automated reporting, and visualisation. This solution leverages GIS technology and field assessments, integrating the national government database of vulnerable households, existing baseline data and early warning systems, and NASA flood and drought models to support multi-stakeholder coordination.
- United Nations – World Food Programme, Cambodia Country Office: coordinated the development of a monitoring and evaluation system for school meals and scholarship program in Cambodia, developing a suite of digital solutions that included data collection, an interactive voice recording system to record community feedback, reporting, and visualisation products. This system was built to enable the Ministry of Education to monitor food stocks and consumption, local food delivery, and micro-infrastructure projects in primary schools.

### Strategy - Digital Solutions and Capacity Strengthening

- United Nations – World Food Programme Pacific Multi-Country Office: developed a vulnerability, analysis, and mapping strategy to enable decision-makers to access food security and livelihood analysis to support emergency preparedness and response coordination, disbursement of cash in the event of a shock, evidence-based advocacy, and anticipatory action. This strategy brought together disparate analysis tools, methods, and approaches under a single food security monitoring system, as well as partnerships to support a capacity strengthening plan to decentralise analysis to country level research officers working with national governments.

- United Nations – World Food Programme, Cambodia Country Office: supported the adoption of a decision-support system through regional consultations into a global corporate initiative by piloting and implementing national level initiatives to deliver end-to-end decision-support systems.
- Aide et Action, Southeast Asia, Regional Office: guided strategy through regional evaluation of programs/projects, including surveys, analysis, and reports, focusing on the scaling of e-learning Android suite of applications aimed at improving access to new literature, interactive learning modules, and curriculum guidance.
- Brooklyn Bridge to Cambodia, Phnom Penh, Cambodia: developed and advised on implementation of new business plan to enable access to rice planting equipment to subsistence farmers, developing overall partnership plans for distribution and financing. The model allowed communities to participate in demonstrations of rice planting equipment, showed increase in yields, and allowed for communities to share costs of accessing equipment.

## Research and Evaluation

- United Nations – World Food Programme Pacific Multi-Country Office: led implementation of Essential Needs Assessments to guide analysis of impact of COVID-19 and Tropical Cyclones (TC Ana & Yasa) on essential needs and deployed remote monitoring system to estimate acute food insecurity in five countries in the Pacific.
- United Nations – World Food Programme (Fiji): oversaw the implementation of a post-distribution monitoring assessment for a one-off unconditional cash top-up to 10,882 social welfare recipients across the geographic areas most affected by Tropical Cyclone (TC) Harold. The assessment required training government enumerators, developing the analysis plan, carrying out analysis, and reporting findings in a report and presentation to the United Nations Resident Coordinator Office and high-level government officials. Key findings included evidence of household expenditure on basic needs and high levels of acute food insecurity and marginal food security.
- Australian Institute for Teaching and School Leadership, Melbourne, Victoria: developed evaluation of national induction guidelines and report on regional, rural, and remote educational outcomes and supported virtual learning guide for teachers.
- United Nations – World Food Programme, Cambodia Country Office: oversaw the adaption of the risk analysis framework from the Intergovernmental Panel on Climate Change (IPCC) to measure risk associated with hazards and coordinated analysis for targeting vulnerable communities utilising baseline data from a national means-tested poverty measurements, administrative data, prevalence of stunting and malnutrition, and poverty incidence. This system integrated hazards and a process for estimating number of households impacted through population density layer.
- Aide et Action, Southeast Asia, Regional Office: initiated the development of a regional approach for evaluating projects and determining strategic priorities, carrying out user research, human centred design.
- Brooklyn Bridge to Cambodia, Phnom Penh, Cambodia: led market research to develop a business plan, tested business plan then measured 30% increase in uptake of rice planting equipment based on business model and measured increases in yields to support evidence of improved farming methods.
- Corps Africa, New York, NY & Casablanca, Morocco: carried out desk and field research and provided data-driven strategic advice, implementing qualitative evaluation and learning framework in support of community-based projects.

## Project Design and Facilitation

- United Nations – World Food Programme Pacific Multi-Country Office: spearheaded technical partnerships with academia and UN agencies in support of insurance schemes, developing cash transfer value and market monitoring and analysis plans.
- United Nations – World Food Programme Pacific Cambodia Country Office: designed projects for cash disbursements in the aftermath of a disaster or localised shock through multi-stakeholder consultations, integrating existing early warning systems into UN WFP’s decision-support platforms to enable cash disbursements.
- Aide et Action, Southeast Asia, Regional Office: managed digital solution user research of e-learning software on Android mobile platform.

## Positions held

2020-2021	Vulnerability Analysis and Mapping Officer, United Nations - World Food Programme, Suva, Fiji
2020	Research Officer, Australian Institute for Teaching and School Leadership, Melbourne, Victoria
2020-2021	Vulnerability Analysis and Mapping Officer, United Nations - World Food Programme, Suva, Fiji
2016-2020	Coordinator – Platforms for Real-time Information Systems Initiative, United Nations - World Food Programme, Phnom Penh, Cambodia
2016	Senior Regional Program Officer, Aide Et Action, Southeast Asia, Phnom Penh, Cambodia
2014-2015	Project Manager, Brooklyn Bridge to Cambodia, Phnom Penh, Cambodia.
2013-2014	Project Associate, Corps Africa, New York, NY & Casablanca, Morocco.

## Memberships

Australian Evaluation Society.

Machine Learning & AI Group.

Citizen Data Scientists.