

JENKINS MACEDO

135 East Main Street, Unit V-10, Westborough, Massachusetts 01581

Skype ID: jenkins.macedo • Email: jenkinsmacedo19@gmail.com • Phone: +1 (774) 386-8865

EXECUTIVE SUMMARY

Data Scientist with expertise in statistical analysis, predictive modeling, big data visualization. Outstanding strategist, professional engagement, project prioritization, and management building on decision sciences.

CORE COMPETENCIES

Project Decision Support Systems	Stakeholders Management	Team Management
Strategic Planning & Communication	Data Management & Statistical Analyses	Capacity Building
Project Life Cycle	Monitoring & Evaluation	Business Intelligence

EDUCATION HISTORY

Aug 2012 - Dec 2014 **Master of Science, Environmental Science and Policy**
Clark University, Worcester, Massachusetts, USA

Aug 2010 - May 2012 **Master of Arts, International Development and Social Change**
Clark University, Worcester, Massachusetts, USA

Aug 2007 - May 2010 **Dual Bachelor of Science, Sociology and Geography**
Worcester State College, Worcester, Massachusetts, USA

EMPLOYMENT HISTORY

Mar 2015 - Present **Marketing Data Scientist**
Road Scholar, Boston, Massachusetts, USA

- Develop predictive response models for all active, expired, and prospective customers.
- Validate, assess, deploy, and maintain scoring algorithms for targeted campaigns.
- Test and validate third party overlay data to contribute appreciably to model discrimination.
- Conduct post-performance assessment of each model against business objectives.
- Develop decile depth test plans in coordination with the mailing and campaign teams.
- Serve as contact for all analytics and modeling needs- ensuring timely and efficient deliverables.
- Develop next generation analytic approaches where current generation approaches are limited..
- Proficient at SAS, JMP Pro 13, SPSS 22, and R for big data mining, analytics, and visualization.
- Apply statistical techniques for models developments, tests, assessments, and validations.
- Statistically derived coefficients estimates of predictors' effects on the response variable.
- Develop inferred preferences scores from customers' web behaviors for marketing campaigns.
- Design scripts to develop new data tables, input data, merge multiple data tables, and analysis.
- Design of experiment in SAS/JMP Pro 13 using the DOE platform data mining and insights.
- Develop SAS/JMP Pro 13 Application to automate analyses, modeling, and data extraction.
- Develop protocol for models productionalization, deployment, and maintenance.
- Conduct lapsed customers analysis to inform future retargeting business decisions.
- Develop customers' personas to inform content and personalized marketing campaigns.
- Deploy model and customers' predictive scores in MicroStrategy to facilitate business analysis.

May 2012 - Dec 2014 **Borlaug Research Scientist**
International Water Management Institute, Vientiane, Lao PDR

- Identified key stakeholders and completed stakeholders' management plan and analysis.
- Designed the research monitoring protocol to improve the resilience of groundwater irrigation.
- Managed the project team, defined tasks, allocated resources, and work breakdown structures.

- Submitted research reports to funder (USAID) in line with expected outcomes and deliverables.
- Completed statistical tests using JMP Pro 12.0.1 to assess the research hypotheses and objectives.
- Conducted a cost-benefit evaluation of treatments preferences relative to all inputs and outputs.
- Developed a predictive model to estimate crop yield based on experimental datasets.
- Properly documented project documents and archived according to the project management plan.
- Facilitated project closure and turnover to all key stakeholders in Lao PDR and the US.

Jul 2011 - Dec 2013

Data Analyst/Outcomes Manager

The Bridge of Central Massachusetts, Worcester, Massachusetts, USA

- Developed data collection and quality assurance protocol for outcomes improvement.
- Managed multiple databases that ensure quality control and assurance of healthcare delivery.
- Created rigorous tracking systems to optimize resources, service delivery and outcomes reporting.
- Analyzed medical, behavioral and developmental outcomes measures using SAS and SPSS.
- Collaborated with healthcare providers and submitted bi-weekly outcome measures and statistics.
- Submitted monthly outcomes reports with recommendations to internal and external stakeholders.
- Designed and conducted experimental research design and protocols to test health treatments.

Aug 2010 - Jan 2011

Program Coordinator

Riverside Community Care, Dedham, Massachusetts, USA

- Designed project management and risks management plans to optimize results and deliverables.
- Facilitated community workshops and disseminated educational materials to 10,000 communities and households impacted by the 2009 flooding in Central Massachusetts.
- Collected, analyzed, and reported post-disaster response and recovery data to all stakeholders.
- Facilitated team meetings and planned strategies to achieve the projects' objectives.
- Led a team of 5 crisis counselors as part of the Mass-Support Initiative.
- Reported to the Regional Head of the Federal Emergency Management Agency, Massachusetts Emergency Management Agency and the Massachusetts Department of Mental Health on project progress, objectives, milestone, and challenges.

Dec 2010 – May 2012

Monitoring & Evaluation Specialist

Commonwealth Corporation, Boston, Massachusetts, USA

- Provided instructions on specific facilitation techniques, instructional methods, and demonstrations on the effective delivery of career readiness and development training.
- Provided a series of coaching sessions for career readiness and development staff at grantee site to effectively deliver career readiness training to clients.
- Developed set of tools and protocols to support coaching and facilitation of career readiness.
- Designed and executed tools and rubrics Commonwealth Corporation's career readiness curriculum which identifies evidence of effective instructional delivery.
- Collaborated with key stakeholders and managers responsible for career readiness and development training and created, reviewed, and revised a framework, which outline grantee' approaches to career readiness including defining scope and sequence of activities and a description of their overall philosophical and instructional approaches to career readiness.

Jan 2000 - Dec 2006

Project Manager

RESPECT Ghana, Accra, Ghana

- Managed over 10-development projects with multiple sources of funding without complexity.
- Supervised over 25 strong projects teams' members including national and international staff.
- Documented, tracked, managed and reported progress reports on finances and personnel.
- Defined project scope, objectives, activities, resources, anticipated deliverables, and outcomes.
- Developed the organizational five-year strategic plan incorporating all projects and programs.
- Grant proposals development, grants managements, stakeholders' engagement and management.

- Managed budgets and resources for over 10 development projects, which multiple stakeholders.
- Strategically managed and optimized all operations and processes for maximum outcomes.
- Tracked and managed changes, risks, and communicated project change to key stakeholders.

Jan 1998 - Dec 1999

Agricultural Extension Officer-Contractor

Children’s Aid Direct-UK, Zwedru, Liberia

- Conducted countywide strategic plan for the provision of agricultural extension services at the district level.
- Completed stakeholder analysis of development organizations and the services they provide to farmers.
- Developed and implemented on-farm agricultural development trainings on integrated agricultural systems.
- Facilitated community impact assessment workshops and seminars geared towards participatory planning.
- Monitored farmers’ utilization of key concept areas and associated skills to enhance productivity.
- Contributed to the development of key concepts targeting to improve farmers’ resiliency to climate change.

Jan 1998 - Dec 1998

Farm Manager-Contractor

Children’s Aid Direct-UK, Zwedru, Liberia

- Developed a multi-seasonal farm management plan for CAD’s seeds multiplication project.
- Completed seasonal inventories of organic seeds storage and distribution to rural farmers in Liberia.
- Designed and executed distribution of seeds to over 7,000 farmers who participated in the project.
- Organized and facilitated training sections with rural farmers on how to harvest, process and store seeds for future use and reduce seeds purchases.
- Facilitated the organization of farmers’ seeds banks across selected pilot districts and towns.

FIELD RESEARCH EXPERIENCE

Dec 2013 - Jul 2014

Food Security Researcher

International Water Management Institute, Laos

- Studied organic and inorganic fertilizer in agricultural soils.

Aug 2012 - Dec 2012

GIS Research Analyst

City of Worcester and Clark University, Worcester, Massachusetts, USA

- Developed a spatial database of community resources for the City of Worcester

Aug 2012 – Dec 2012

Renewable Energy Researcher

Clark University, Worcester, Massachusetts, USA

- Studied the energy efficiency and management systems of the University

Jun 2011 - Aug 2011

Environmental Security Researcher

Ghana Refugee Board, Greater Accra Region, Accra, Ghana, West Africa

- Studied the environmental security impacts of municipal solid waste.

AWARDS, GRANTS & SCHOLARSHIPS

Sep - 2015

SAS Institute Award: Discovery Summit (\$4,000.00) – San Diego, CA

Jan - 2015

Award: Global Science Conference (€5,500.00)-Montpellier, France

May - 2013

Grant: U.S. Norman Borlaug (USAID Global Food Security-\$25,000)-Lao PDR

Jan - 2013

Grant: New Economic Institute (\$5,000)

Jan - 2011

Grant: Compton Foundation International Sustainability Fellow (\$15,000)

Aug - 2010

Scholarship: IDCE Social Change Fellowship (\$45,000)

Mar - 2010

Award: Worcester Consortium of Colleges Civic Engagement

Mar - 2010

Award: AmeriCorps Education (\$1,000)

Mar - 2005

Grant: British Council-Ghana (\$14,000): Project: Youth Development

Jan – 2002

Grant: World Bank Institute (\$15,000): Project: Women Empowerment

RELEVANT PROFESSIONAL SKILLS

Analytical Softwares & Systems

SPSS, StatPlus 5, R, RStudio, Stata, SAS, JMP Pro 13, MS Office, Nvivo, Atlas.ti, Anthropic, QDA Miner Lite, MAXQDA, Remote Sensing, Spatial Database Development, ArcGIS, MatLab, Coremetrics, & MicroStrategy

Project Management and Decision Support Systems

MS Project, Basecamp, AtTask Project, Project Design, Monitoring and Evaluation, Proposal and Grant Writing, Project Cycle, Participatory Planning, Budgeting and Resource Allocation and Decision Analyses

Language: French Fluent: Read, Write and Speak

PROFESSIONAL ASSOCIATION MEMBERSHIP

Institution	Membership since
Geographic Honors Society of Worcester State College	2010 - 2015
Project Management Institute	2010 - 2015
International Geography Honor Society	2010 - 2015

VOLUNTARISM

Aug 2011 - May 2014	Co-President (Masters' Students) Graduate Students Council, Clark University, Worcester, Massachusetts, USA
Jan 2012 - Dec 2013	Graduate Students' Representative Graduate Board, Clark University, Worcester, Massachusetts, USA
Aug 2009 - Dec 2009	AmeriCorps Service Learning Team Leader Worcester State College, Worcester, Massachusetts, USA

PROFESSIONAL CONFERENCES

March 16, 2015	3rd Global Science Conference on Climate-Smart Agriculture Institut de Recherche pour le Développement, Montpellier, France <ul style="list-style-type: none">○ <i>Presented on biochar effects on soil, crop growth, yield and soil water.</i>
April 4, 2014	15th Anniversary Symposium on Agriculture & Forestry Research for Development , National Agriculture & Forestry Research Institute, Vientiane, Laos <ul style="list-style-type: none">○ <i>Presented on the effects of organic and inorganic fertilizer on crop yield.</i>
May 31, 2014	2nd Sustainable Groundwater Project National Stakeholders Conference International Water Management Institute, C/o National Agriculture & Forestry Research Institute, Vientiane, Lao PDR <ul style="list-style-type: none">○ <i>Presented the status updates on the component of groundwater project and sustainable agricultural methodology to enhance soil-water interactions.</i>
April 6, 2013	11th Annual Multi-Disciplinary Graduate Research Conference, Graduate Research Conference , Clark University, Worcester, Massachusetts, USA <ul style="list-style-type: none">○ <i>Presented on food security, sustainable agriculture and climate change.</i>
April 11, 2011	56th Annual Meeting at the Association of American Geographers Washington Convention Center, Seattle, Washington, USA <ul style="list-style-type: none">○ <i>Presented on the environmental impacts of warehousing refugees.</i>

PROFESSIONAL DEVELOPMENT

Oct 2014 – Oct 2015

Project Management Professional (Candidate)

Project Management Institute, Newtown Square, Pennsylvania, USA

Nov 2004 - Nov 2006

Associate of Science, Sustainable Development

West African College for Sustainable Development, Winneba
Cape Coast, Ghana, West Africa

PUBLICATIONS

Jenkins, M.; Souvanhnachit, M.; Rattanaovong, S.; Maokhamphiou, B.; Sotoukee, T.; Pavelic, P.; Sarkis, M.; Downs, T. 2015. *Irrigation Groundwater Quality for Agricultural Usability in Biochar and Fertilizer Amendments among Smallholders Irrigators in Ekxang Village, Vientiane Province, Lao PDR*. In Centre de cooperation Internationale en Recherche Agronomique pour le Developpement (CIRAD). 3rd Global Science Conference on Climate-Smart Agriculture, Montpellier, France, 16-18 March 2015. Parallel session L1 regional dimensions. Paris, France: Centre de cooperation Internationale en Recherche Agronomique pour le Developpement (CIRAD). pp.141

Jenkins, M.; Souvanhnachit, M.; Rattanaovong, S.; Maokhamphiou, B.; Sotoukee, T.; Pavelic, P.; Sarkis, M.; Downs, T. 2015. *Enhancing productivity and livelihoods among smallholder irrigators through biochar and fertilizer amendments [Abstract only]*. In Centre de cooperation Internationale en Recherche Agronomique pour le Developpement (CIRAD). 3rd Global Science Conference on Climate-Smart Agriculture, Montpellier, France, 16-18 March 2015. Parallel session L1 regional dimensions. Paris, France: Centre de cooperation Internationale en Recherche Agronomique pour le Developpement (CIRAD). pp.141

J. Macedo: Liberian Refugees in Ghana: Environmental Security Implications of the Indiscriminate Disposal of Municipal Solid Waste. 05/2012, Degree: Master of Arts, International Development and Social Change.

D. Banks and J. Macedo. Chapter 2: Youth Leading Youth: Hip Hop and Hiplife Theater in Ghana and South Africa. New Village Press, NY: New York City, 12/2011.