Ahmadou DICKO, PhD

Statistician-Economist

Contact Liberte VI ext. villa 61	Professi	onal experience	
11000, Dakar Senegal +221 77 123 81 69 mail@ahmadoudicko.com ahmadoudicko.com	2021-Now	 UNHCR - West and Central regional bureau Statistics and data analysis officer Statistics and data analysis officer Designing surveys and develop tools for collecting data Analyzing data on displacement and statelessness Developing analytical data products to streamline decision making Facilitating training on statistics and data analysis 	Dakar, Senegal
French: fluent English: professional proficiency Statistical programming R, Julia	2019–2020	FAO - Regional Resilience, Emergency Office for West Africa Resilience measurements and MEAL officer Lead resilience measurements and MEAL officer • Monitoring and evaluation of resilience projects • Conducting impact evaluation of resilience projects • Developing resilience measurements surveys and analyses	Dakar, Senegal
Visualization R, D3 Data collection ODK, KoBoToolbox RDBMS PostgreSQL, DuckDB GIS GRASS GIS, PostGIS	2017–2019	UN OCHA - Center for Humanitarian Data Data science team lead Lead for the OCHA Center for Humanitarian Data Dakar team Oversight and strategy of the Data team Conduct tailored data literacy training Building humanitarian data products Visualization of the Pool crisis (Congo): link to the viz FAO pastoral crisis dashboard: link to the viz Community building around humanitarian data science Humanitarian data R User Group: Link to the website Humanitarian data partnership in West Africa: link to the blo	Dakar, Senegal
	2016–2017	Agricultural Research Centre for International Development Postdoctoral researcher Modeling and developing data products to optimize pest control: • Development of statistical models to optimize tsetse control • Development of tools to evaluate the cost of tropical diseases under control.	ontpellier, France
	2013–2016	University Cheikh Anta Diop PhD in climate change economics A thesis on the economics of African animal trypanosomosis under climate • It was organized in three parts: — Building a machine learning model to optimize tsetse control — Designing of a risk index to build an index-based animal disectory and the cost and benefit of African animal trypanosom • The Senegalese tsetse eradication project was based on the output of • This eradication campaign won a best pratice awards at the Milano	in Senegal ase insurance osis control f this research

2010-2011 National School of Statistics and Economic Analysis (ENSAE)

Director of the ENSAE junior enterprise, providing:

Dakar, Senegal

- Training in statistical analysis
- Survey design and analysis services
- Survey data collection, entry and management services

Independent statistical consulting and training

2018	Agricultural Research Centre for International Development Consultant Expert lecturer in statistical analysis.	Montpellier, France
2017	FAO and International Atomic Energy Agency Consultant Predicting the distribution of Anophelese arabiensis in Northern Suda	Montpellier, France
2016	FAO International Atomic Energy Agency Consultant Predicting the distribution of tsetse in Angola for target control.	Montpellier, France
2015	Commissariat à la sécurité alimentaire du Mali and GISSE Consultant Enhancement and refinement of the food security early warning system	Bamako, Mali m used in Mali.
2015	FAO and International Atomic Energy Agency Consultant Expert lecturer in predictive analytics, GIS and R programming for tryptrol.	Addis Ababa, Ethiopia
2015	CIRAD Consultant Training on species distribution modeling and handling of remote sen	Dakar, Senegal
2014	International Atomic Energy Agency Consultant Predicting tsetse flies distribution in Mozambique for target control.	Dakar, Senegal
2013	Intrahealth Consultant Training and collaborative mapping of Senegalese health districts using	Dakar, Senegal open source tools.

Teaching experience

2020	Université Internationale d'Excellence Visiting lecturer Visualizing big data	Bamako, Mali
2020	ENSAE Visiting lecturer R programming	Dakar, Senegal
2017	ENSAE Visiting lecturer Advanced course on robust and non parametric statistics for graduate stu	Dakar, Senegal
2014	ENSAE Visiting lecturer Advanced course on robust and non parametric statistics for graduate stu	Dakar, Senegal

Education

2013-2016	PhD in climate change economics	University Cheikh Anta Diop, Dakar
	The economics of African animal trypanosomosis under clin	nate change
2009-2012	MSc in statistics and applied economics	ENSAE, Dakar
	Statistician-economist engineer	

Certifications

2021	Survey Data Collection and Analytics Specialization	Coursera - UMich and UMD
2019	Rstudio certified trainers	Rstudio
2019	Causality from observational data	Coursera - University of Pennsylvania
2016	Julia scientific programming	Coursera - University of Cape Town
2015-2016	Data science specialization	Coursera - John Hopkins University

Awards

2012	Postgraduate Scholarship	German Federal Ministry of Education and Research (BMBF)
	Scholarship to pursue a PhD in clin	nate change economics in the WASCAL program
2009	Postgraduate Scholarship	French government
	Scholarship obtained from outstan	ding results in the African wide entrance exam to
	regional school of statistics	

Leadership and affiliation

2021-Now	Regular member of the International Statistics Inst	itute isi-web.org
2013-Now	Founder and co-organizer of the Dakar R User Gro	pup r-dakar.gitlab.io
2012-Now	Kaggle user, platform for data science competition	kaggle.com/dickoa
2011-Now	Top R user in Stackoverflow	stackoverflow.com/users/592920/dickoa
2010-Now	Member of Dakar Linux User Group	meetup.com/Linux-Senegal

Software

2021-Now	ridl	UNHCR internal platform to share raw data
2021-Now	popdata	UNHCR internal population statistics platform
2020-Now	rgeoboundaries	Access high resolution administrative boundaries
2020-Now	prepr	R package to fix broken spatial polygons
2018-Now	rhdx	R package to interact with the Humanitarian Data Exchange portal
2018-Now	ochatemplates	R markdown templates inspired by OCHA graphics stylebook
2018-Now	ochathemes	ggplot2 themes inspired by OCHA graphics stylebook
2018-Now	humicons	R package to easily insert OCHA Humanitarian icons to R markdown document

Selected publications

2020	Field performance of sterile male mosquitoes released from an uncrewed aerial vehicle Science Robotics Jérémy Bouyer, Nicole J Culbert, Ahmadou H. Dicko,, Marc JB Vreysen
2020	Controlling the spatio-temporal dynamics of tsetse flies in a cattle breeding region of Senegal ModAH Hélène Cecilia, Ahmadou H. Dicko,, Pauline Ezanno
2017	A pilot study to delimit tsetse target populations in Zimbabwe Gerald Chikowore, Ahmadou H. Dicko,, Laure Guerrini
2016	Influence of temperature and relative humidity on survival and fecundity of three tsetse strains Parasites & Vectors Soumaïla Pagabeleguem,, Ahmadou H. Dicko,, Jérémy Bouyer
2016	Range expansion of the Bluetongue vector, Culicoides imicola, in continental France likely due to rare wind-transport events Stéphanie Jacquet,, Ahmadou H. Dicko,, Claire Garros
2015	Mapping landscape friction to locate isolated tsetse populations that are candidates for elimination PNAS Jérémy Bouyer, Ahmadou H. Dicko,, Renaud Lancelot
2015	A spatio-temporal model of African animal trypanosomosis risk Ahmadou H. Dicko,, Jérémy Bouyer
2015	Modelling the Abundances of Two Major Culicoides (Diptera: Ceratopogonidae) Species in the Niayes Area of Senegal Maryam Diarra,, Ahmadou Hamady Dicko,, Hélène Guis
2014	Using species distribution models to optimize vector control: the tsetse eradication campaign in Senegal PNAS Ahmadou H. Dicko,, Jérémy Bouyer
2014	Ex-ante Benefit-Cost Analysis of the Elimination of a Glossina palpalis gambiensis Population in the Niayes of Senegal Fanny Bouyer,, Ahmadou H. Dicko,, Abdrahmane Wane