

CURRICULUM VITAE

Full Name: Dr. Ibrahima DIOUF
Born: November, 3rd 1984
Birthplace: Ngayokheme
Position : Postdoctoral
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Reference contacts:

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RESEARCH TOPICS/INTERESTS

My post-doctoral position is focused on climate and health issue, seasonal predictions over Sahel, climate change Impacts on vector-borne diseases like malaria and climate change adaptation in general.

The main aim of my research is to understand at a more fundamental level the climate drivers of the vector-borne diseases such as malaria.

In particular, my study is based on observations and modeling fed by atmospheric datasets using the Liverpool Malaria Model (LMM). Furthermore, I analyze malaria parameters performed with the LMM using meteorological datasets and different reanalysis products and highlight the findings by coupling the LMM UNILIV and S4CAST UCM models in order to predict malaria parameters some months in advance.

During my PhD research, I have acquired a strong scientific experience in my career by working together with dynamic teams in my home University (UCAD, Dakar-Senegal) and my host University (UCM, Madrid-Spain).

ACADEMIC ACHIEVEMENTS

Graduate Studies	Centre	Date
MSc Degree specialised in Physics and Chemistry	Faculty of Science and Technology (FST/UCAD)	2009

Postgraduate Studies	Centre	Date
Master-degree in Meteorology, Oceanography and Management of Arid Areas	Polytechnic School of Dakar (ESP/UCAD)	December 2010
PhD	Polytechnic School of Dakar (ESP/UCAD)	November, 2016

FORMER PROFESSIONAL OR SCIENTIFIC ACTIVITIES

Position	Institutions	Date
Postdoctoral	Centre de Suivi Ecologique (CSE) ; UCAD/ESP/LPAO-SF, Dakar, and Universidad Complutense de Madrid, Facultad de Físicas Departamento de Meteorología	From November, 2016

FOREIGN LANGUAGES SKILLS

Language	Speaking	Understanding	Writing
French	proficiency	proficiency	proficiency
English	Advanced	advanced	advanced
Spanish	Upper intermediate	upper intermediate	upper intermediate

COMPUTE LANGUAGES SKILLS

Computer skills and programming language	Levels	
Systems:	Linux	advanced proficient
	Microsoft Windows	advanced proficient
Computing:	Matlab	advanced proficient
	Fortran	proficient
	Ferret	proficient
	R	familiar
	Grads	familiar
Text and Presentation:	office, latex	advanced proficient
other software:	grace, xmgrace	proficient

SCIENTIFIC-TECHNICAL PUBLICATIONS

Diouf I., Deme A, Ndione J-A, Gaye A.T, Rodriguez FB, Cisse M: Climate and health: Observation and modeling of malaria in the Ferlo (Senegal). *C.R. Biologies Académie des sciences*, 2013, **336**, 253-260.

Diouf I., Deme A., Ndione J-A., Gaye AT., Rodriguez F.B., Cisse M: Observation and Modelling of malaria in Sahel. *Comptes Rendus de l'Association Internationale de Climatologie, XXVIIe AIC colloquium*, Juillet 2014, Dijon (France).

Diouf I., Deme A., Ndione J-A., Gaye AT., Rodriguez F.B., Cisse M: Determination of malaria parameters using meteorological data sets of Senegal stations and reanalyses products. *Comptes Rendus de l'Association Internationale de Climatologie, XXVIIIe AIC colloquium*, Juillet 2015, Liège (Belgique).

Ibrahima Diouf, Belen Rodriguez-Fonseca, Abdoulaye Deme, Moustapha Cisse, Ibrahima Dia, Andy Morse, Cyril Caminade, Volker Ermert, Ndione Jacques-Andre, Amadou Thierno Gaye (2016a). Validation of simulated malaria parameters in Senegal using reanalysis products (in review).

Ibrahima Diouf, Belen Rodriguez-Fonseca, Abdoulaye Deme, Moustapha Cisse, Ibrahima Dia, Cyril Caminade, Ndione Jacques-Andre, Amadou Thierno Gaye (2016b). Reliability of reanalyses reproducing malaria parameters in Sahel (to be submitted).

Ibrahima Diouf, Belen Rodriguez-Fonseca, Abdoulaye Dème, Moustapha Cisse, Jaques-Andre Ndione, Amadou Thierno Gaye, Roberto Suarez, Malick Wade (2016c). Tropical interannual oceanic influence on malaria parameters over Sahel (to be submitted).

Ibrahima Diouf, Jacques-André Ndione, Nana Klutse, Ulrich DIASSO, Christiana F. Olusegun, Bamba Sylla, Francis Nkrumah, Arona Diedhiou, Abdourahamane Konaré, Romaric C. Odoulami, Kwesi A. Quagraine, Francis Nkrumah, Moussa S. Mounkaila (2016d) . Projected Impacts of global warming on health in West Africa in the framework of CORDEX Project (to be submitted).

CONTRIBUTIONS TO NATIONAL AND INTERNATIONAL SCIENTIFIC CONGRESSES

- **Ibrahima Diouf**, Belen Rodríguez-Fonseca, Abdoulaye Deme, Moustapha Cisse, Jaques-Andre Ndione, Amadou Gaye, Roberto Suárez-Moreno.
Predictability of malaria parameters in Sahel under the S4CAST Model.
Orale presentation in CLIVAR-PIRATA-PREFACE Tropical Atlantic Variability Conference, Paris (France), from 28 November to 03 December 2016.
- Ibrahima Diouf, Belen Rodríguez-Fonseca, Abdoulaye Deme, Moustapha Cisse, Jaques-Andre Ndione, Amadou Thierno Gaye.
Climat-Santé : observations et modélisation de l'incidence saisonnière du paludisme et prédictibilité de risques d'occurrence au Sénégal et au Sahel.
Orale presentation on « Climate and health » workshop co-organized by par ANACIM and NOAA, Dakar (Senegal), from 19 to 21 July 2016.
- **Ibrahima Diouf**, Abdoulaye Deme, Belén Rodríguez Fonseca, Jacques André Ndione, and Amadou Thierno Gaye.
Climat-Santé: observations et modélisation de l'incidence saisonnière du paludisme et prédictibilité de risques d'occurrence au Sénégal et au Sahel
Orale presenataion (and Coordinator at LPAOSF) in the « 1ère édition de la journée des jeunes chercheurs de l'ESP, UCAD, Dakar (Senegal), 11 June 2016.
- **Ibrahima Diouf**, Abdoulaye Deme, Belén Rodríguez Fonseca, Jacques André Ndione, and Amadou Thierno Gaye.
Climate and Health: Observations and Modeling the Impact of Climate Parameters on Seasonal Malaria Outbreaks in Senegal and Sahel
Poster presentation in the 2nd International Conference on One Medicine One Science, Minnesota (USA) from 24 to 27 April 2016.
- **Ibrahima Diouf**, Belen Rodríguez-Fonseca, Abdoulaye Deme, Moustapha Cisse, Jaques-Andre Ndione, Amadou Gaye, Roberto Suárez-Moreno.
Predictability of malaria parameters in Sahel under the S4CAST Model.
Poster presentation in the European Geosciences Union General Assembly, Vienna (Austria), from 17 to 22 April 2016.
- **Ibrahima Diouf**, Abdoulaye Deme, Belén Rodríguez Fonseca, Jacques André Ndione, and Amadou Thierno Gaye.
Observation et modelisation climat-santé: tendances climatiques et risques associés aux impacts sur la transmission du paludisme au Sénégal et au Sahel.
Poster presentation (and Coordinator at LPAOSF) in the « Fête de la science et de l'innovation », Place du Souvenir, Dakar (Senegal), from 19 to 21 November 2015.
- **Ibrahima Diouf**, Abdoulaye Deme, Belén Rodríguez Fonseca, Jacques André Ndione, and Amadou Thierno Gaye.
Comparison of malaria simulations driven by meteorological observations and reanalysis products in Senegal and Sahel.
Orale presentation in the « Deuxièmes Journées Scientifiques du CAMES (JSDC-2) », UCAD, Dakar (Senegal), from 23 to 25 november 2015.
- **Ibrahima Diouf**, Abdoulaye Deme, Belén Rodríguez Fonseca, Roberto Suárez, Jacques André Ndione, and Amadou Thierno Gaye, 2015.
Détermination des paramètres du paludisme au Sénégal à partir de données météorologique de stations et de réanalyses
Poster presentation in the XXVIIIème Colloque annuel on modélisations & variabilités, 1 to 4 July 2015, Liège (Belgium).
- **Ibrahima Diouf**, Abdoulaye Deme, Belén Rodríguez Fonseca, Roberto Suárez, Jacques André Ndione, and Amadou Thierno Gaye, 2015.
Poster presentation in the International Scientific Conference "*Our common future under climate change*", 7 to 10 July 2015, Paris (France).
- **Ibrahima Diouf**, Abdoulaye Deme, Belén Rodríguez Fonseca, Roberto Suárez, Jacques André Ndione, and Amadou Thierno Gaye, 2015.
Oceanic influence on seasonal malaria outbreaks over Senegal and Sahel
Poster presentation in European Geosciences Union (EGU) General Assembly, Viena (Austria), from 12 April to 17 May 2015.

- **Ibrahima Diouf**, Abdoulaye Deme, Belén Rodríguez Fonseca, Roberto Suárez, Jacques André Ndione, and Amadou Thierno Gaye, 2014.
Climat-santé: observation et modélisation de l'incidence saisonnière du paludisme pour sa prévision au Sénégal et au Sahel.
Poster presentation in « Journée portes ouvertes LMI- ECLAISRS », LPAOSF-UCAD, Dakar (Senegal), 13 December, 2014.
- **Ibrahima Diouf**, Abdoulaye Deme, Belén Rodríguez Fonseca, Roberto Suárez, Jacques André Ndione, and Amadou Thierno Gaye, 2014 .
Climat et santé : observation et modélisation du paludisme au sahel.
Poster presentation in the AIC2014 colloquium (Colloque de l'Association Internationale de Climatologie), Dijon (France), from 2 to 5 July 2014.
- Ibrahima Diouf, Abdoulaye Deme, Belén Rodríguez Fonseca, Roberto Suárez, Jacques André Ndione, and Amadou Thierno Gaye, 2014.
Climate and health: observation and modelling malaria in Ferlo (Senegal), and Sahel.
Poster presentation in « Cinquantenaire de l'École Supérieure Polytechnique de Dakar », ESP/UCAD, Dakar (Senegal), from 24 to 28 May 2014.
- **Ibrahima Diouf**, Abdoulaye Deme, Belén Rodríguez Fonseca, Roberto Suárez, Moustapha Cisse, Jacques André Ndione, and Amadou Thierno Gaye, 2014 .
Oceanic influence on seasonal malaria outbreaks over Senegal and Sahel. Predictability using S4CAST model
Oral presentation in European Geosciences Union (EGU) General Assembly, Viena (Austria), from 27 April to 02 May 2014.
- **Ibrahima Diouf**, Jacques Andre Ndione, Abdoulaye Deme, Amadou Thierno Gaye, Cheikh Mouhamed Kebe, and Moustapha Cisse, 2011.
Climate and health: observation and modelling malaria in Ferlo (Senegal)
Poster and oral presentation in the 4th AMMA International Conference, Toulouse, France, from 2 to 6 July 2012.
- **Ibrahima Diouf**, Belén Rodríguez Fonseca, Abdoulaye Deme, Moustapha Cisse, Jacques Andre Ndione, and Amadou Thierno Gaye, 2013.
Climate and health: observation and modelling malaria in Ferlo (Senegal)
Oral presentation in the African ERASMUS student meeting in the framework of "Fundación Sur" Publication, Madrid, Spain, 9 May 2013.
- **Ibrahima Diouf**, Belén Rodríguez Fonseca, Abdoulaye Deme, Moustapha Cisse, Jacques Andre Ndione, and Amadou Thierno Gaye, 2013.
Estimation of the impacts of climate variability and change.
Poster presentation in the Climate and Health session, Arusha, Tanzania, from 15 to 18 October 2013.
- **Ibrahima Diouf**, Belén Rodríguez Fonseca, Abdoulaye Deme, Moustapha Cisse, Jacques Andre Ndione, and Amadou Thierno Gaye, 2013 .
Climate and malaria relationship
Oral presentation in the Summer School: Joint analyses of climate and environmental variables for impact studies in sub-Saharan Africa, Dijon, from 30 June to 7 July 2013.
- **Ibrahima Diouf**, Jacques Andre Ndione, Abdoulaye Deme, Amadou Thierno Gaye, Belén Rodríguez Fonseca, and Roberto Suárez, 2013.
Climat and heath: Climate and health: observation and modelling malaria in Ferlo (Senegal)
Oral presentation in the QWeCI Final Project Meeting, Confortel Barcelona hotel, Barcelona, Spain, from 16 to 18 May 2013.
- **Ibrahima Diouf**, Abdoulaye Deme, Moustapha Cisse, Jacques Andre Ndione, and Amadou Thierno Gaye, 2012.
Climate and health: observation and modelling malaria in Ferlo (Senegal)
Oral presentation in the Panafrican Symposium ANSTS-COPED, Dakar, Senegal, from 30 October to 3 November 2012.
- **Ibrahima Diouf**, Belén Rodríguez Fonseca, Abdoulaye Deme, Moustapha Cisse, Jacques Andre Ndione, and Amadou Thierno Gaye, 2012.
climate variability and teleconnections with population health security sector, malaria as case of study
Oral presentation in the 1st workshop on climate variability and teleconnections organized together by UCM and UFP (Universidad Federal de Paraná, Brazil), Madrid, Spain, from 15 to 19 October 2012.
- **Ibrahima Diouf**, Abdoulaye Deme, Mame Birame Diouf, Jacques Andre Ndione, and Amadou Thierno Gaye, 2011.
Impacts du Climat sur la santé des populations, détermination de l'incidence saisonnière du paludisme au Ferlo (Sénégal) à l'aide des modèles numériques.
Oral presentation in the QWeCI Project International Workshop for End Users, Dakar, Senegal, 30 October to 3 November 2011.

PARTICIPATION IN RESEARCH PROJECTS

(** International Project, * National project)

Title of project**: Quantifying Weather and Climate impacts in the developing Countries (QWeCI)
Funded by: European Commission Seventh Framework Research Programme under the grant agreement 243964
Duration: from: Jan 1, 2010 up to July 31, 2013
Coordinating Institution: University of Liverpool (UNILIV)
Project Coordinator: Professor Andy Morse
Title of project**: Erasmus Mundus Project, Action 2 Strand 1 Lot-15 (ACP) program
Funded by: European Commission
Duration: from: Oct 1, 2013 up to July 31, 2015
Coordinating Institution: Universidade do Porto, Portugal (UP)
Project Coordinator: Maria de Fátima Marinho
Title of Project**: Actualización de Recursos del Laboratorio de Física de la Atmósfera y el Océano Simeon Fongang en UCAD (Senegal), N° Ref. VR 63/12
Funded by: Universidad Complutense de Madrid through the III and IX Cooperation's Calls-UCM
Duration: from: May 10, 2013 up to October 1, 2014
Coordinating Institution: Universidad Complutense de Madrid (UCM)
Project Coordinator: Dr. Elsa Mohino Harris
Title of Project**: Seminario España-Brasil en Variabilidad Climática del Atlántico Tropical y Teleconexiones (subvención para proyectos conjuntos modalidad B, ref PHB2011-0113-TA)
Funded by: Spanish Ministry of Education
Duration: from: October 15, 2012 up to October 19, 2012
Coordinating Institution: Universidad Complutense de Madrid (UCM)
Project Coordinator: Belén Rodríguez de Fonseca
Title of Project**: PREFACE: Enhancing prediction of Tropical Atlantic climate and its impacts.
Funded by: European Union (FP7)
Duration: from: November 1, 2013 up to October 31, 2017
Coordinating Institution: University of Bergen, Norway Geophysical Institute and Bjerknes Centre for Climate Research
Project Coordinator: Noel Keenlyside
Title of project**: Laboratoire Mixte International Etude du climat en Afrique de l'Ouest et de ses Interactions avec

l'Environnement Régional (LMI ECLAIR)	
Funded by: IRD	
Duration: Since Jan 1, 2012 until now	
Coordinating Institutions: LPAOSF-ESP (Univ. Cheikh Anta Diop) and LOCEAN-IPSL (Univ. Paris VI)	
Project Coordinators: Amadou Thierno. Gaye (LPAOSF-UCAD) and Alban Lazar (LOCEAN-IPSL)	
Title of project*: Projet d'Intégration de l'Adaptation au Changement Climatique dans le développement durable au Sénégal (INTAC)	
Funded by: Japanese government through the African Adapatation Program (AAP)	
Duration:	Jan 1, 2010 up to July 2012
Coordinating Institution: Direction de l'Environnement et des Etablissements classés (DEEC) du Sénégal	
Project Coordinator: Babacar Diouf	
Title of project**: Coordinated Regional Climate Downscaling Experiment-Africa Analysis Campaign Phase 2	
Funded by: Swedish Secretariat for Environmental Earth Systems Sciences (SSEES), WCRP and SMHI	
Duration: from	Jan 1, 2015 up to December 2017
Coordinating Institution: CSAG at University of Cape Town and SMHI	
Project Coordinator (s): Chris Lennard (CSAG, UCT) and Grigory Nikulin (SMHI)	
Title of project**: Reference Office on Climate Change, Adaptation and Mitigation Strategies	
Funded by: Cooperation Luxembourg	
Duration: from	September, 2016 up to September, 2020
Coordinating Institution: Centre de Suivi Ecologique (CSE), Sénégal	
Project Coordinator:	Ibrahima SY (CSE, Sénégal)

STAYS IN FOREIGN CENTRES

(Key: D=doctoral, P=postdoctoral, I=invited, C=Conference, O=others)

Department of Geophysics and Meteorology, Physical Sciences Faculty (UCM)		Key: D
City: Madrid	Country: Spain	Date: 01/10/2012
		Duration: 30 months
Subject: Studying Oceanic influence on seasonal malaria outbreaks over Senegal and Sahel.		
Funding by: Erasmus Mundus Project, Action 2 Strand 1 Lot-15 (ACP) program		

Centre International de Météo France	Key: C
City: Toulouse Country: France Date: 2/06/2012 Duration: 1 week	
Subject: 4th AMMA International conference	
I was funded by: IRD	
Institut Català de Ciències del Clima (IC3)	Key: C
City: Barcelona Country: Spain Date: 16/05/2013 Duration: 1 week	
Subject: QWeCI Final Project Meeting	
Funding by: Project funded by the European Commission within the Seventh	
Centre de Recherches de Climatologie (CRC)	Key: C
City: Dijon Country: France Date: 30/06/2013 Duration: 10 days	
Subject: Summer School: Joint analyses of climate and environmental variables for impact	
I was funded by: IRD	
Austria Center Vienna (ACV)	Key: C
Subject: European Geosciences Union General Assembly 2014	
City: Vienna Country: Austria Date: 27/04/2014 Duration: 1 week	
I was funded by: Complutense University of Madrid thanks to Dr. Belén Rodríguez de Fonseca	
Université Pierre et Marie Curie (UPMC)	
City: Paris Country: France Date: 07/07/2015 Duration: 1 week	
Subject: International Scientific Conference Our Common Future Under Climate Change	
I was funded by: IRD	
University of Cape Town (UCT)	Key: C
City: Cape Country: South Africa Date: 13/02/2016 Duration: 1 week	
Subject: CORDEX-Africa Phase 2 Analysis Workshops	
I was funded by: Climate System Analysis Group project	
University of Minnesota	Key: C
City: Minnesota Country: USA Date: 27/04/2016 Duration: 1 week	
Subject: 2 nd International Conference on One Medicine One Science	
I was funded by: University of Minnesota and the iCOMOS organizing committee	