



CURRICULUM VITAE

Mariama KABA

PH D HYDROGEOLOGY- GEOCHEMISTRY

1 – Education

- 2017 : **PH D in Hydrogeology-Geochemistry with Honors**, Geology Department, Faculty of Sciences and Techniques (FST)- Cheikh Anta Diop University of Dakar / UMR 6143 M2C– Geology Department – Rouen-Normandie University
- 2009 : **Master II in Hydrogeology with Honors**, Faculty of Sciences and Techniques (FST) University Cheikh Anta Diop of Dakar (UCAD)
- 2007 : **Master I en Hydrogeology** Faculty of Sciences and Techniques (FST) University Cheikh Anta Diop of Dakar (UCAD)
- 2006 : **Master degree in Natural Sciences** Faculty of Sciences and Techniques (FST) University Cheikh Anta Diop of Dakar (UCAD)
- 2005 : **Bachelor degree in Natural Sciences** Faculty of Sciences and Techniques (FST) University Cheikh Anta Diop of Dakar (UCAD)
- 2004 : **Undergraduate in Natural Sciences** Faculty of Sciences and Techniques (FST) University Cheikh Anta Diop of Dakar (UCAD)

2- Professionnal Experiences

➤ Teaching / Scientific Animation

- 2016-2018 : Professor in Sciences and Mathematics, N°1 Sclolarité Agency Rouen-France
- 2013-2014 : Supervisor and Secretariat Exams Rouen-Normandie University -France
- 2010-2011 : Geology Instructor in the First Year of Natural Sciences in the Geology Department of the Cheikh Anta Diop University of Dakar. 55 hours of TD / TD in Cartography.
- 2008 - 2010 : Geology Instructor in the First Year of Natural Sciences in the Geology Department of the Cheikh Anta Diop University of Dakar. 55 hours of TD / TD in Cartography.
- 2007-2010: Supervision of students for the Internal and External Geodynamics course
- 2006: Scientific Animator of "Science in the South" exhibition organized by the Institute for Research for Development (IRD) for 15 days Dakar Independence Square - Senegal.

3- Skills & Internships

➤ Skills

- Hydrogeological, Hydrological, Geological Studies
- Drilling survey and Groundwater Monitoring
- Geochemistry, Isotopy and water pollution

- Pedology
- Surface water, groundwater and soil sampling techniques
- Remote sensing and space systems engineering
- Processing, analysis and interpretation of aerial photographs and satellite images
- Geographic Information System (GIS)
- Project management

➤ **Internships**

✓ **Geochemistry - Isotopy – Hydrology - Hydrogeology**

- 2011-2017: Hydrogeologist / Environmental Geochemist Junior Specialist in Water Resources Management and Environmental Geochemistry Dakar / Rouen
- 2014-2015: Doctoral internship in Rouen and Caen on soil geochemistry
- 2014: International Doctoral Course on "Stable Isotopes in Forest Ecosystem Research" from 17 to 21 February at INRA Nancy (France)
- 2013 : Training on "Stable Isotopes in Biogeochemistry – Spatialisation " from 16 to 28 June at the University of Utah in the United States
- 2012-2013: Doctoral mobility-Analysis and Interpretation of datas at Rouen-Normandie University
- 2012: Internship on the equipment for isotopic measurements from 19 to 22 November at the Institute for Environmental Research in Germany (Munich)
- 2011: Training Course in Geochemistry at the M2C laboratory of the University of Rouen
- 2010: Summer school "The second EWIEM NIMDIE International Summer School" on the theme: "Weather and climate: Forecasts in Africa and its application to agriculture and the management of water resources" of the July 19 to 31 at the Kwame Nkrumah University of Science and Technology (KNUST) in Kumasi, Ghana.

✓ **Remote sensing et Geographical Information Systems (GIS)**

- 2011: 3rd training course on "Active and Passive Microwave Remote Sensing" organized by the University of Delft in the Netherlands from June 20 to 24 as part of the TIGER project
- 2010: Advanced course in Radar Satellite Imagery from September 13th to December 12th at the Paris Est University of Marne La Vallee in France.
- 2010: Radar Remote Sensing, Image Processing and GIS Training from February 10 to 12 at the Institute of Earth Sciences, within the framework of the international seminar of the AUF / TECOMAO project
- 2007-2009: Internship in Remote Sensing, Satellite Image Processing and Geographic Information Systems at the Ecological Monitoring Center of Dakar

- 2007: Seminar on Geographic Information Systems (GIS) of the project "Assessment of Freshwater Africa" organized from 06 to 11 September at CSE (Dakar)
- 2005: Geographic Information Systems Internship at the Ecological Monitoring Center of Dakar

✓ **Project Management**

- 2011 : President of the Organizing Committee and Participant at the Seminar on "Project Management" from 13 to 16 July at Dakar University
- 2009 : Green Water workshop on "Writing a research project" from 25 to 30 May in Ouagadougou, Burkina Faso

✓ **Seminars– Conferences - Congresses**

- 2018 : French Researchers in Organic Geochemistry (FROG4) Poster Presentation From 10 to 11 July - Lyon I University - France
- 2017: Goldschmidt Conference Poster presentation from 13 to 18 August at the Palais des Congrès in Paris, France
- 2016: Meeting of Earth Sciences (RST) Poster presentation from 20 to 24 October at the Palais des Congrès in Caen, France
- 2014: Doctoral Day at the Rouen-Normandie University - Mid-term defense "Hydric and Geochemical Transfers in the North Coast / Senegal wetlands"
- 2012: African Association of Women in Geosciences (AAWG) Congress Oral and Poster presentations from 20 to 24 April in Yaounde - Cameroon «Hydric and geochemical transfers in the Niayes of the North Coast in Senegal»
- 2012: "Security and Intelligence" training conducted on July 4th by the Ecole Doctorale Normale de Integrative Biology, Health and Environment (EdNBISE) of Rouen-Normandie University.
- 2011: Training seminar on the theme "Understanding Intellectual Property and its Challenges", December 12th and 13th by EdNBISE University of Rouen in France
- 2010: African Association of Women in Geosciences (AAWG) Congress, Oral and Poster Presentations from 20 to 24 October in Grand Bassam - Ivory Coast « Evaluation of the potential areas of recharge of the Thiaroye groundwater : Cartographic Approach by Remote Sensing and Geographical Information Systems »

4- Publications

- **M. Kaba**, V. Mesnage, B. Laignel, S. Faye (**Current**) Soil Organic Matter Content and Biogeochemical Processes in coastal wetlands depressions in North Littoral in Senegal. *Catena*.

- **M. Kaba (2017)** Regional Hydrogeological Study and Hydrogeochemical Functioning of the Wetlands of the North Coast in Senegal. Ph D thesis in Hydrogeology. *Cheikh Anta Diop University of Dakar - Senegal / Rouen-Normandie University -France* 346 p.
- **M. Kaba**, V. Mesnage, B. Laignel, I. Mall, C. Stumpp, P. Maloszewski, S. Faye (2016) Spatial and seasonal variability of groundwater hydrochemistry in the Senegal North Littoral aquifer using multivariate approach *Environmental Earth Science Journal*, 75:724, 20 p. DOI 10.1007/s12665-016-5520-x.
- O. C. Diouf, S. F. Cissé, M. Diedhiou, **M.Kaba**, S. Faye, C. B. Gaye, A. Faye, A. Englert, S. Wohnlich (2012): Combined uses of water-table fluctuation (WTF), chloride mass balance (CMB) and environmental isotopes methods to investigate groundwater recharge in the Thiaroye Sandy Aquifer (Dakar, Senegal), *African Journal of Environmental Science and Technology* Vol. 6(11), pp. 425-437
- **M. Kaba (2009)**: Evaluation of potential recharge areas of the Thiaroye aquifer: Cartographic approach by remote sensing and Geographic Information Systems. Advanced Studies Diploma (Master II in research) - *Cheikh Anta Diop University of Dakar - Sénégal* 117p + Appendices

5- Associative and administrative experiences

2011- Current	- Alumni of AIESEC Senegal/ National and Local Offices Coaching
2015	- Founding member of the Hand of Change Association
2011/2012	- Responsible for pH D students at Water, Quality and Issues Doctoral School (EDEQUE) at Cheikh Anta Diop University in Dakar
	- Alumni of AIESEC association / Jury member of candidates selection for international internships
2010	- Responsible for pH D students at Water, Quality and Issues Doctoral School (EDEQUE) at Cheikh Anta Diop University in Dakar
	- National Vice-Presidente on AIESEC in charge of Finances et Administration
2009	- "Youth EntrepreneurShip" Project Manager in charge of the Promotion, and External Relations team leader in AIESEC
2008	- Member of Exchanges committee in AIESEC
	- Responsible for the "UCAD Citizen activities" field campaign at the Gandon (Saint-Louis) site in Senegal
2007	
2005	- Participation in the citizen activities of UCAD in Nianing (Senegal)
2004	- Pedagogical Commission member at Scientific Club in Cheikh Anta Diop Comission
1999-2000	- Vice-presidente "Espace Internet" Non-gouvernemental Organization in Gabon
	- Co-leader of the Telematic Committee at the 1st African Summit of Science and New Technologies (SASNET) in Libreville
1999	

5- Others

➤ IT Tools

- Operating Systems: Microsoft→ Word/ Excel/ Power-Point/ Paint.
- Software: Erdas Imagine 9.2, Arc View 3.2, Arc GIS 9.2, Envi 4.5, Best, Surfer 8, Diagramme, PALSarPRO, MapReady, NEST, R.

➤ Language

- French : Very good
- Anglais : Good

➤ Driving Licence

6-REFERENCES

	Adresse
Professor Serigne FAYE	Geology Department Faculty of Sciences and Techniques Cheikh Anta Diop University of Dakar BP: 5005 Dakar Fann Senegal Tél : + 221 77 411 83 95 E-Mail : serigne.faye@ucad.edu.sn
Docteur HDR Valerie MESNAGE	Laboratoire de Morphodynamique Continentale et Côtière UMR 6143 Sciences and Techniques UFR Rouen-Normandie University - 76821 Mont Saint Aignan Tél : + 336 74 67 29 34 E-Mail : valerie.mesnager@univ-rouen.fr
Professor Benoit LAIGNEL	Laboratoire de Morphodynamique Continentale et Côtière UMR 6143 Sciences and Techniques UFR Rouen-Normandie University - 76821 Mont Saint Aignan Tél : + 336 19 19 78 09 E-Mail : benoit.laignel@univ-rouen.fr