



## CURRICULUM VITAE

### **1. Personal information:**

**Name:** Mame Samba MBAYE

**Date and place of birth:** April 04<sup>th</sup> 1967 in Thiès (Senegal)

**Professional address:** Département de Biologie Végétale, FST, UCAD, BP 5005 Dakar- Fann, Sénégal.

**Telephone:** Office: (221) 33 824 80 01; Cellular. : (221) 77643 18 51

**E-mail** : [mame.mbaye@ucad.edu.sn](mailto:mame.mbaye@ucad.edu.sn), [msmbaye@yahoo.fr](mailto:msmbaye@yahoo.fr)

### **2. Background:**

**Field:** Biodiversity, Systematics, Intercropping, and weed science.

**2013: State Thesis on** Intercropping and weed science “Intercropping millet [*Pennisetum glaucum* (L.) R. Br] with cowpea [*Vigna unguiculata* (L.) Walp]: Spatio-temporal arrangement of crops, structure, dynamics and competition of the weed flora and proposal of a technical itinerary”.

**2002: PhD** on Systematics and Ecology: Contribution to biosystematics of the genus *Corchorus* L. in Senegal.

### **3. Professional activities:**

- **From February 2015 to now** : Head of Plant Biology Department
- **From 2018 to now:** Coordinator of the program « **UCAD RURALE** » (this program is developed to strengthen the capacity of UCAD to mobilize resources to meet major societal challenges with external stakeholders. Its **Mission** is to connect training, research, and outreach for sustainable development. The strategy is to develop all around the country centers (1 in each agroecological zone) which will be dialogue (contact) space (peoples, knowledges, institutions, organizations etc.) for for: 1-Identification of challenges faced by communities; 2-Training; 3-Research (experiments), 4-Demonstration (extension) etc.).
- UCAD Focal point in Senegal National agricultural and food research System
- UCAD Focal point in the USAID project « Youth in Agriculture »
- UCAD Focal point in Michigan State University initiative « Alliance of African Partnership (AAP) »
- Local Coordinator at l’UCAD of the project « Societal challenges and governance of African universities: the case of ALiments in Morocco, the Democratic Republic of the Congo and Senegal (**DAfrAli**) », European Union funding

### **4. Teachings:**

My educational activities relate to the teaching of Botany, biodiversity, weed science, scientific leadership, and positive youth development

### **5. Research activities:**

My research activities are mainly focuses on:

- Agriculture and weed science ;

- Plant systematics and taxonomies ;
- Flora and Vegetation analysis, biodiversity, Natural Resources Management and valorization ;

#### Our researches aimed to:

- In terms of agriculture and weed science,
  - know the weed flora and vegetation of some agro-systems
  - understand the dynamics and competition of weeds vis-à-vis certain crops
  - propose weeding schedules that can improve the technical itinerary of these crops
  - propose agricultural systems adapted to our areas
- concerning botany and systematics, identify new discriminating characters and highlighting possible affinities and evolutionary tendencies within certain taxa;
- In terms of biodiversity,
  - determine the structure of the flora and vegetation of different zones in Senegal
  - contribute to a better understanding of the plant diversity of Senegal, Africa and the world;

#### **6. Publications:**

More than 60 publications in Agriculture and Environment including:

1. Samba Laha KA, Moustapha GUEYE, **Mame Samba MBAYE**, Modou NGOM, Abdou Aziz CAMARA, Moussou Kéba CISSOKHO, Rahimi MBALLO, Mamadou SIDYBE, Ndongo DIOUF, Djibril DIOP, Jules DIOUF, Kandioura NOBA (2019) - Taxonomic diversity and abundance of weed flora in upland rice fields of Southern Groundnut Basin, Senegal- Journal of Research in Weed Science Volume 3 Issue 1, pp 48-56. DOI: 10.26655/JRWEEDSCI.2020.1.5
2. Didier Montet, Jamal Eddine Hazm, Abdelouahab Ouadia, Abdellah Chichi, **Mame Samba Mbaye**, Michel Bakar Diop, Paul Mobinzo, Apollinaire Biloso, Isaac Diansambu, Joël Scher, Marie-Louise Scippo, Maria-Teresa Barreto Crespo (2019) - Contribution of the methodology of collective expertise to the mitigation of food safety hazards in low- or medium-income countries. Food Control, Volume 99, Pages 84-88, ISSN 0956-7135, <https://doi.org/10.1016/j.foodcont.2018.12.009>. Impact Factor 4.391 (<http://www.sciencedirect.com/science/article/pii/S0956713518306091>)
3. Ka S. L., Gueye Moustapha, **Mbaye Mame Samba**, Kanfany Ghislain & Kandioura Noba, 2019 - Response of a weed community to organic and inorganic fertilization in peanut crop under Savannah zone of Senegal, West Africa Journal of Research in Weed Science **2** : 241-252
4. Samba Laha KA, **Mame Samba MBAYE**, Moustapha GUEYE , Abdoul Aziz CAMARA, Birane DIENG et Kandioura NOBA – 2019- Flore adventice du sorgho (*Sorghum bicolor* [L.] Moench) en Haute Casamance, zone soudanienne du Sénégal 7060-JBCS
5. DIOUF N., **MBAYE M.S.**, GUEYE M., DIENG B., BASSENE C. et K. NOBA- 2019- La flore adventice des cultures cotonnières dans le Sénégal Oriental et en Haute Casamance *Int. J. Biol. Chem. Sci.* 13(3): 1720-1736,
6. Mballo R., Bassene C. , **Mbaye M.S.**, Diallo S., Camara A.A1. & Noba K (2018) - Caractérisation de la flore adventice du riz irrigué dans quatre sites d'expérimentation dans la vallée du fleuve Sénégal. Journal of Animal & Plant Sciences, 2018. Vol.38,

Issue 2: 6257-6271 Publication date 30/11/2018, <http://www.m.elewa.org/JAPS> ; ISSN 2071-7024

7. Samba Laha KA, **Mame Samba MBAYE**, Moustapha GUEYE, Baboucar BAMBA, Mamadou Ousseynou LY, Ndongo DIOUF and Kandioura NOBA (2017)- Systematic composition, life forms and chorology of fallow lands in Eastern Senegal and Casamance, Senegal- *Int. J. Biol. Chem. Sci.* 11(6): 2573-2586,
8. **MBAYE M.S.**, KANE A., GUEYE M., BASSENE C., BA N., DIOP D., SYLLA S.N., NOBA K. (2014) – Date et densité optimales de semis du niébé [*Vigna unguiculata* (L.) Walp.] en association avec le mil [*Pennisetum glaucum* (L.) R. Br.] *Journal of Applied Sciences*, **59** : 4307-4320.
9. BASSENE C. , **MBAYE M.S.**, CAMARA A.A., KANE A., GUEYE M., SYLLA S.N., SAMBOU B. et NOBA K. (2014) – La flore des systèmes agropastoraux de la Basse Casamance (Sénégal) : cas de la communauté rurale de Mlomp. *Int. J. Biol. Chem. Sci.* 8(5): 2258-2273. DOI : <http://dx.doi.org/10.4314/ijbcs.v8i5.28>
10. THOMAS BORSCH, CORNELIA LÖHNE, **MAME SAMBA MBAYE** AND JOHN WIERSEMA (2011) – Towards a complete species tree of *Nymphaea*: shedding further light on subg. *Brachyceras* and its relationships to the Australian water-lilies. *Telopea* 13(1-2): 193-217.
11. **MBAYE M.S.**, NOBA K., KANE A., SARR R.S., HANE P.D., BA N., KANE M. & BA A.T., 2010– Affinités entre taxa et tendances évolutives au sein d'espèces sénégalaises du genre *Corchorus* L. (*Tiliaceae*). In X van der Burgt, J. van der Masen & J.-M. Onana (eds), *Systématique et conservation des Plantes Africaines*. Pp. 57-65 Royal Botanic Garden, Kew.
12. **MBAYE M.S.**, NOBA K., SARR R.S., KANE A., SAMBOU J.M. et BA A.T. – (2001) *Caractères spécifiques d'identification au stade jeune plant d'adventices Sénégalaises du genre Corchorus L. (TILIACEAE)*, *Ann. Bot. Afr. O.* 00 (0): 35-42.
13. **MBAYE M.S.**, NOBA K., SARR R.S., KANE A., SAMBOU J.M. et BA A.T. (2001) – *Eléments de précision sur la systématique d'espèces adventices du genre Corchorus L. (TILIACEAE) au Sénégal*, *African Journal of Science and Technology, Science and Engineering*, Vol. 2 N°1: 51-64.

#### 7. Supervision of students:

More than 50 Master students in Agriculture and Environment

11 PhD including:

- **Ndongo DIOUF, 2020** - Weed flora of cotton crops in Eastern Senegal and Casamance (Senegal): Structure, Nuisibility and Impacts on production
- **Jules DIOUF, 2020** - urban biodiversity and resilience systems in dakar green spaces: the case of the botanical garden (FST / UCAD) and the special botanical reserve of noflaye (Senegal)
- **Birane DIENG, 2019** - Floriculture in Dakar (Senegal): Diagnosis of farms, characterization of taxa, and valorization
- **Samba Laha KA (2019)** - The weed flora of sorghum (*Sorghum bicolor* [L.] Moench) in Haute Casamance (Senegal): structure, dynamics, nuisibility and weeding schedule
- **Rahimi MBALLO, 2019** - Weed communities of irrigated rice in the Senegal river valley: structure of flora, range of habitat and degree of species infestation and improvement of weed management