**Ghislain Kanfany, PhD**

**Pays: Senegal**

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**Curriculum Vitae**

# ACADEMIC TRAINING

* PhD in plant breeding, January 2014 to December 2017, West African Centre for Crop Improvement (WACCI), University of Ghana, Accra/Ghana, West Afruca.
* Master in Agronomy and Crop protection, January 2009 to January 2010, National Graduate school of Agriculture (ENSA), Thies/Senegal, West Africa
* Agronomist engineer degree in Plant production, January 2003 to November 2008. National Graduate school of Agriculture, Thies/Senegal, West Africa

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# RESEARCH EXPERIENCE:

1. *Gaston Berger University (UGB), Saint Louis, Senegal*

I am currently teaching courses related to plant breeding, cropping system and seed production at Gaston Berger University. I also supervise BsC and MsC students who are conducted their research in plant breeding and seed sciences.

1. *Senegalese Agricultural Research Institute (ISRA)*

Scientist in plant breeding from February 2017 to August 2022. I conducted several studies in plant breeding with focus on pearl millet and upland rice. I coordinated the cereal the research program where I managed plant breeder, agronomist, seed producers and pathologists. I conducted several breeding activities including the development of varieties, inbred lines, varietal evaluation and seed production.

1. *West African Centre for Crop Improvement, Ghana*

PhD training in plant breeding from January 2013 to January 2017. During my thesis, I worked on the improvement of pearl millet for downy mildew disease, one of the most devastated pearl millet diseases in Senegal. I identified several sources of resistance for downy mildew, studied their combining ability and identified genomic regions associated to this disease.

1. *AfricaRice Centre*

Research Assistant in Rice breeding Program July 2010 to December 2013. I assisted the principal senior scientist in their principal tasks including trial implementation, training BSc and MSc students, writing reports and preparing presentation, drafted papers and other tasks. I contributed to the development and dissemination of several rice varieties resistant to salinity and cold with high grain yield across African countries under the STRASA project. I was also involved in the implementation of the AfricaRice hybrid breeding program.

1. *Senegalese Agricultural Research Institute (ISRA)*

Research assistant ISRA / CRA St. Louis, seed production unit. February 2010 to August 2010. I assisted the head of the seed unit in their principal tasks including the implementation of seed production plots, post-harvest activities and training of farmers and technicians.

# PUBLICATIONS :

* Leroux, L., Faye, N. F., Jahel, C., Falconnier, G. N., Diouf, A. A., Ndao, B., **Kanfany, G**.... & Bouquet, E. (2022). Exploring the agricultural landscape diversity-food security nexus: an analysis in two contrasted parklands of Central Senegal. ***Agricultural Systems***, 196, 103312.
* Sarr, A., Bodian, A., Gueye, M. C., Gueye, B., **Kanfany, G**., Diatta, C., ... & Leclerc, C. (2022). Ethnobotanical study of cowpea (Vigna unguiculata (L.) Walp.) in Senegal. ***Journal of ethnobiology and ethnomedicine***, 18(1), 1-15.
* **Kanfany, G**., Ayenan, M. A. T., Zoclanclounon, Y. A. B., Kane, T., Ndiaye, M., Diatta, C., ... & Fofana, A. (2021). Analysis of Genotype-Environment Interaction and Yield Stability of Introduced Upland Rice in the Groundnut Basin Agroclimatic Zone of Senegal. Advances in Agriculture, 2021.
* SARR, M., TRAORÉ, A., **KANFANY, G.**, LY, M. O., KANE, S., & GUEYE, M. (2021). Évolution de la production cotonnière au cours des onze dernières années au Sénégal: Études des contraintes liées à la production. ***Journal of Applied Biosciences***, 165, 17078-17091.
* Serba, D. D., Sy, O., Sanogo, M. D., Issaka, A., Ouedraogo, M., Ango, I. K., ... & **Kanfany, G**. (2020). Performance of dual-purpose pearl millet genotypes in West Africa: Importance of morphology and phenology. ***African Crop Science Journal***, 28(4), 481-498.
* **Kanfany, G**., Diack, O., Kane, N. A., Gangashetty, P. I., Sy, O., Fofana, A., & Cisse, N. (2020). Implications of farmer perceived production constraints and varietal preferences to pearl millet breeding in Senegal. ***African Crop Science Journal***, 28(3), 411-420.
* Diack, O., **Kanfany, G**., Gueye, M. C., Sy, O., Fofana, A., Tall, H., ... & Kane, N. A. (2020). GWAS unveils features between early-and late-flowering pearl millets. ***BMC genomics***, 21(1), 1-11.
* KA, S. L., GUEYE, M., **KANFANY, G**., DIATTA, C., MBAYE, M. S., & Kandioura, N. O. B. A. (2020). Dynamique de levée des adventices du sorgho (*Sorghum bicolor* L.) Moench] en zone soudanienne humide du Sénégal. ***Revue Marocaine des Sciences Agronomiques et Vétérinaires***, 8(3).
* **Kanfany, G**., Serba, D.D., Rhodes, D. et al. (2020). Genomic diversity in pearl millet inbred lines derived from landraces and improved varieties. ***BMC Genomics*** 21, 469 (2020). https://doi.org/10.1186/s12864-020-06796-4
* Ka, S. L., Gueye, M., Mbaye, M. S., **Kanfany, G**., & Noba, K. (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(3). https://doi:10.26655/jrweedsci.2019.2.3.7 pp. 180 à 281
* Zoclanclounon, Y. A. B., **Kanfany, G**., Kane, A., Fonceka, D., Ehemba, G. L., & Ly, F. (2019). Current Status of Pearl Millet Downy Mildew Prevalence across Agro-ecological Zones of Senegal. ***The Scientific World Journal***
* Bamba, B., Gueye, M., Ngom, D., Ka, S. L., Diop, B., & **Kanfany, G**. (2019). Caractérisation des pratiques locales du mil Sanio [*Pennisetum glaucum* (L.) R. Br] en zone soudanienne humide au Sénégal. ***International Journal of Biological and Chemical Sciences***
* Ka, S. L., Gueye, M., Mbaye, M. S., **Kanfany, G.**, & Noba, K. (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***
* **Kanfany G**; Zoclanclounon YA, Tongoona P; Danquah A; Offei SK; Fofana A; Thiaw C, Danquah EY & Cisse N. (2018) Evidence of pathogenic variation in *Sclerospora graminicola* populations from pearl millet growing regions in Senegal. ***Journal of Plant Pathology***
* **Kanfany G**; Tongoona P; Fofana A; Danquah A; Offei SK; Danquah EY & Cisse N. (2018) Estimates of combining ability and heterosis for yield and its related traits in pearl millet inbred lines under downy mildew prevalent areas of Senegal. ***International Journal of Agronomy***
* **Ghislain Kanfany**, Amadou Fofana, Pangirayi Tongoona, Agyemang Danquah, Samuel Offei, Eric Danquah and Ndiaga Cisse., 2018. Identification of new sources of resistance for pearl millet downy mildew disease under field conditions. Accepted for publication in ***Plant Genetics Resources***.
* Yedomon Ange Bovys Zoclanclounon, **Ghislain Kanfany**, Cheikh Thiaw, Amadou Fofana, Nalla Mbaye, Ndiaga Cisse, 2017. Assessment of Pearl Millet Genotypes for Downy Mildew Resistance and Agronomic Performance under Field Conditions in Senegal. Accepted for publication in ***International Journal of Agriculture and Biology.***
* Marilyne Debieu, **Ghislain Kanfany** and Laurent Laplaze, 2017. Pearl Millet Genome: Lessons from a Tough Crop. ***Trends in Plant Science***.
* **Ghislain Kanfany;** Ange Zoclanclounon; Cheikh Thiaw; Amadou Fofana and Ndiaga Cisse, 2017. Evidence of Pathogenic Variation in *Sclerospora graminicola* Populations from Pearl Millet Regions of Senegal. Poster presented during the International conference on Sustainable Intensification, Dakar, Senegal.
* **Ghislain Kanfany**, Alpha Bocar Balde, Cyril Diatta, Bathe Diop and Amadou Fofana, 2017. Identification of adapted upland rice genotypes for the southern part of the groundnut basin of Senegal. Poster presented during the International conference on Sustainable Intensification, Dakar, Senegal.
* **Ghislain Kanfany**, Moustapha Gueye, Djibril Sarr and Mamadou Ndiaye, 2016. Agronomic constraints to the development of fonio millet in Senegal. Conference paper published in The 3rd International conference on negliccted and undertilized species (NUS) proceedings, Accra, Ghana, 25-27 September 2013.
* **Ghislain KANFANY**, Moustapha GUEYE, Amadou FOFANA, Ibrahima SARR, Saliou NDIAYE, Cyril DIATTA and Bathe DIOP, 2016. Participatory varietal selection of upland rice (*Oryza sativa*) varieties in the groundnut basin, Senegal. ***Journal of Agricultural Extension and Rural Development***.
* Daba Ndour, Diaga Diouf, Isaac Kofi Bimpong, Abdoulaye Sow, **Ghislain Kanfany** and Baboucarr Manneh, 2016. Agro-Morphological Evaluation of Rice (*Oryza sativa* L.) for Seasonal Adaptation in the Sahelian Environment. ***Agronomy***
* Moustapha Gueye, **Ghislain Kanfany**, Amadou Fofana, Mamadou Gueye, Kandioura Noba and J. Grove, 2015. Effect of planting date on growth and grain yield of fonio millet (*Digitaria exilis* Stapf) in the Southern east of Senegal. ***Int. J. Biol. Chem. Sci.***
* Isaac Kofi Bimpong Baboucarr Manneh Bathe Diop **Kanfany Ghislain** Abdulai Sow Nana Kofi Abaka Amoah Glenn Gregorio Rakesh Kumar Singh Rodomiro Ortiz Marco Wopereis. 2014. New quantitative trait loci for enhancing adaptation to salinity in rice from Hasawi, a Saudi landrace into three African cultivars at the reproductive stage. ***Euphytica*.**
* **Ghislain Kanfany**, Raafat El-Namaky ,Kabirou Ndiaye, Karim Traore and Rodomiro Ortiz. 2014. Assessment of Rice Inbred Lines and Hybrids under Low Fertilizer Levels in Senegal. ***Sustainability***
* **Ghislain Kanfany**, Moustapha Gueye and Kandioura Noba. 2013. Agronomic diagnosis on farmers’ fields and effects of harvest date on fonio millet (*Digitaria exilis* Stapf) in south-eastern Senegal. Abstract Presented during the 3rd International conference on Neglected and Underutilized Species for a Food Secure Africa, Accra, Ghana, 25-27 September 2013.
* Isaac Kofi Bimpong, Baboucarr Manneh, Raafat El-Namaky, Faty Diaw, Nana Kofi Abaka Amoah, Bakary Sanneh, **Kanfany Ghislain**, Abdulai Sow, R.K. Singh, Glenn Gregorio, Jean Berchmans and M. Wopereis, 2013. Mapping QTLs Related to Salt Tolerance in Rice at the Young Seedling Stage using 384- plex Single Nucleotide Polymorphism SNP, Marker Sets. ***Molecular plant breeding***.
* Raafat El-Namaky, Karim Traore, **Ghislain Kanfany**, Kofi Bimpong and Baboucarr Manneh, 2014. Hybrid rice Sustainability in Africa. Poster presented during the Hybrid Rice congress.
* N.K.A. Amoah, F. Diaw, B. Manneh, B. Diop, **Ghislain Kanfany**, A. Gueye, M. Sock, D. Mbodji, G.B. Gregorio, R.K. Singh and I.K. Bimpong. 2013. Identification of Yield Enhancing Quantitative Trait Loci in Saltol Introgression Lines for Salinity Tolerance in Rice. Poster presented during the 3rd AfricaRice Congress, Yaounde, Cameroun.
* El Namaky R., Traore K., **Ghislain Kanfany**, Bimpong IK., Manneh B. 2013. Adaptation of hybrid rice technology in West Africa. Paper presented during the 3rd AfricaRice Congress, Yaounde, Cameroun.
* **Ghislain Kanfany**, 2011. Effect of organic mineral fertilizer on growth and yield of fonio in Casamance and Eastern Senegal Msc Dissertation submitted to the National Graduate school of Agriculture (ENSA), Thies/Senegal.
* **Ghislain Kanfany,** 2008. Agronomic diagnosis of fonio in farmers' fields in Casamance and Eastern Senegal. Agronomist Engineer Dissertation submitted to the National Graduate school of Agriculture (ENSA), Thies/Senegal.

# TECHNICAL SHEETS:

* **Ghislain Kanfany**, Amadou Fofana, Mamadou Lo, Arame Top (2017): Guide pratique de production de semences de riz pour les producteurs. Série Fiches Techniques ISRA, 14 (3). 26 pages, ISSN 0850-9980.
* Amadou Fofana, Moustapha Gueye, Ghislain Kanfany, Hamidou Tall, Saliou Djiba (2017): Fiche Technique du Fonio. Série Fiches Techniques ISRA, 14 (4). 10 pages, ISSN 0850-9980.
* Alfred Kouly Tine, Alpha Bocar Baldé, Malick Ndiaye; Fatou Tine , Gualbert Séraphin Dorégo, **Ghislain Kanfany** (2019): Promotion de l’approche genre dans la valorisation des déchets organiques en milieu rural : cas du Bassin arachidier. Série Fiches Techniques ISRA, 50 (4). 3 pages, ISSN 0850-9980.
* Alpha Bocar Baldé ; Alfred Kouly Tine ; Malick Ndiaye ; Ciré Elimane Sall C. ; Gualbert Séraphin Dorego; Fatou Tine F; Yolande Senghor; **Ghislain Kanfany** (2019). Dose d’engrais minérale et densité de semis recommandées pour la culture de variétés hybrides de maïs au Sénégal. Série Fiches Techniques ISRA, 51 (1). 2 pages, ISSN 0850-9980.
* Malick Ndiaye . **Ghislain Kanfany** ; Alfred Kouly Tine; Alpha Bocar Baldé , Bertrand Muller ; Myriam Adam (2019). Guide d’aide à la création de nouvelles variétés de sorgho à double usage dans le Bassin Arachidier du Sénégal. Série Fiches Techniques ISRA, 50 (3). 3 pages, ISSN 0850-9980.
* Alfred Kouly Tine, Malick Ndiaye, Alpha Bocar Baldé, Déthié Ndiaye, Fatou Tine; **Ghislain Kanfany** (2019): Amélioration des techniques de valorisation des déchets organiques. Série Fiches Techniques ISRA, 51 (2). 3 pages, ISSN 0850-9980.
* **Ghislain Kanfany**, Jeannot Diatta, Malick Ndiaye, Yagouba Diao, Seny Mbengue Diop, Oumar Diack, Ousmane Sy, Abdoulaye Diop, Ndjido Kane (2021). Techniques de production de semences de variétés de mil à pollinisation libre. Série Fiches Techniques ISRA, 58 (3). 6 pages, ISSN 0850-9980.
* **Ghislain Kanfany**, Malick Ndiaye, Jeannot Diatta, Khady Nani Dramé, Yagouba Diao, Seny Mbengue Diop, Oumar Diack, Ousmane Sy, Abdoulaye Diop, Ndjido Kane (2022). Techniques de production de semences hybrides de mil. Série Fiches Techniques ISRA, 60 (3). 6 pages, ISSN 0850-9980.