

Curriculum Vitae

Prof. Dr. Romain GLELE KAKAÏ

Full Professor in Biostatistics and Forest estimations (CAMES)
Head of the Laboratory of Biomathematics and Forest Estimations
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PERMANENT ADDRESS

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EDUCATION

PhD in Biometry (The highest distinction with congratulations)
Gembloux Agricultural University, Belgium, 2005.
MSc in Biometry (Graduated First)
Gembloux Agricultural University, Belgium, 2001
Engineer Degree in Forestry (Graduated First)
Faculty of Agronomic Sciences, University of Abomey-Calavi, 2000.
Bachelor Degree in Agronomy (Graduated First)
Faculty of Agronomic Sciences, University of Abomey-Calavi, 1998.

INTERNATIONAL PRIZES

PRIZE “Heinz and Johannes”. Best research paper in Ecology; 2007 edition. The Support Africa International Foundation, Germany, 2007.
PRIZE “Jan Tinbergen”. Best young statistician from emerging and developing countries. The International Statistical Institute (ISI), Australia, 2005.
PRIZE “Biométrie 88”. Best young French biometrician in Belgium. National Association of French Belgian biometricians, Belgium, 2002.

INTERNATIONAL DISTINCTIONS

Member of Advisory committee of AGNES (African-German Network of Excellence in Science), 2015.
Member of the Global Young Academy of Sciences, 2012.
Member of The World Academy of Sciences (Young affiliate), 2011-2015.
“Young scientists” for the World Economic Forum (Annual meeting of the new champions 2012).
Fellow of the Alexander von Humboldt Foundation for outstanding achievements in research. Germany, 2007.

INDIVIDUAL RESEARCH GRANTS

1. WAEMU (West African Economic and Monetary Union), 2012;
2. TWAS (Third World Academy of Sciences), 2011;
3. RSG Foundation (England), 2008;
4. Wild Idea Foundation (USA), 2008;
5. Alexander von Humboldt Foundation, 2007;

6. GTZ-PROCGRN-BENIN, 2007;
7. TWAS (Third World Academy of Sciences), 2006;
8. GTZ-PROCGRN-BENIN, 2006;
9. IFS (International Foundation for Sciences), 2006;
10. AFORNET, 2005; 11. IFS (International Foundation for Sciences), 2003;
12. GTZ-PROCGRN-BENIN, 2003 ;
13. AUF (Agence Universitaire de la Francophonie), 2002;
14. ANAFE/ICRAF, 1999. Many national grants.

COLLABORATIVE RESEARCH PROJECTS

1. **MANGROVES.** Vers une gestion durable des mangroves au Bénin: dynamique spatio-temporelle, biodiversité, usages et gestion locale, capacité de séquestration de carbone et impacts des changements climatiques. Project coordinator. Period: 2016-2018.
2. **SCOPA.** Organic Cotton for Employment, Growth and Environment? (Organic cotton) I'm senior researcher in the project. Period: 2015-2018. Member of the steering committee of the project.
3. **CORAF/WECARD.** Sustainable improvement of the productivity of meat value chain (SIMPROMEAT) for food security in West Africa. Senior researcher in the Project. Period: 2014-2016.
4. **CORAF/WECARD.** *Amélioration de la résilience aux changements climatiques des écosystèmes agricoles le long des bassins-versants par le développement participatif de systèmes agroforestiers anti-érosifs et fertilisants dans six pays ouest africains.* (AmeRCAF). Associate coordinator for Benin. Period: 2013-2015.
5. **ECOWAS.** Projet d'harmonisation des méthodes d'étude de la flore et de la végétation en Afrique de l'Ouest. ECOWAS (Economic Community of West African States), Coordinator for the whole project. Period: 2012-2014.
6. **AFRICAN UNION.** Projet de mise au point de technologies de production et d'utilisation durables de biocarburant de *Jatropha curcas* pour une réduction de la pauvreté rurale en Afrique de l'Ouest. Associate coordinator in Benin. Period: 2012-2015.
7. **UNIVERSITY OF ABOMEY-CALAVI (BENIN).** Les palmiers sauvages du Bénin: utilisation, biodiversité, écologie, importance économique, et conservation, 2012. I'm Senior researcher in the project. Period: 2012-2015.

AFFILIATION

Statistical Pan African Society (SPAS), 2009

Elected-Member of the International Statistical Institute (ISI, the Netherlands), 2005.

African Forestry Research Network, 2004.

Vice-chair of national administrative boards for the development of maize culture in Republic of Bénin, 2012.

Member of the Global Young Academy of Sciences, 2012.

Member of The World Academy of Sciences (Young affiliate), 2011.

RESEARCH INTEREST

- Linear and Generalized linear mixed effect models ;
- Development and harmonization of efficient forest inventory designs in West Africa
- Empirical performance of common components and specific weights;
- E-M Algorithms and its variants in non linear models ;
- Ecology and management of mangroves ;

- Non timber forest products;
- Modeling of structure and dynamics of forest species populations in Benin

PROFESSIONAL EXPERIENCE

Biometrician, National Institute of Agricultural Research of Bénin, 2002-2007

Biometrician (Part time job), Africa Rice Centre, 2006-2008

Junior Professor, University of Abomey-Calavi, 2007-2008

Senior lecturer, University of Abomey-Calavi, 2009-2010

Associate Professor, University of Abomey-Calavi, 2011-2014

Full Professor, University of Abomey-Calavi, 2015-

Coordinator of the Doctoral training in Biostatistics, University of Abomey-Calavi, 2013-

LECTURE IN OTHER WEST AFRICAN UNIVERSITIES

1. University of Abdou Moumouni, **NIGER**; Faculty of Sciences, NIGER. Contact person: Prof. Ali Mahamane. BP 10662 Niamey Niger. E-mail: ali_mahamane@yahoo.fr. Phone: +227 96967724. Fax: +227 20315072. Lecture in Biostatistics for MSc Students.
2. University of Kara; Faculty of Sciences, **TOGO**. Contact person: Prof. Baba Gnon. Email: gnonbaba@yahoo.fr. Lecture in Linear models for BSc students in statistics.
3. Kwame Nkrumah University of Science and Technology (KNUST), **GHANA**. Contact person: Prof. Samuel Odai. Email: snodai@yahoo.com. Lecture in Univariate statistical methods, Multivariate statistical methods and time series analysis for PhD Students.
4. Higher National Agronomy and biotechnology Institute (**GABON**). Lecture in Experimental designs for engineer degree students in agronomy. Contact person: Dr Kumulungui Brice Serge. Email: kumulungui@yahoo.fr
5. University of Parakou, **BENIN**. Interdisciplinary Doctorate cycle. Contact person: Prof. Nestor Sokpon, Vice-Chancellor. Email: nsokpon@yahoo.fr. Lecture in Multivariate statistical methods for MSc students.
6. Wascal's GRP-Climate Change and Biodiversity, University Félix Houphouet Boigny (**COTE D'IVOIRE**). Lecture in sampling techniques and experimental designs for PhD students in Natural resources and climate change.

SCIENTIFIC PUBLICATIONS (4 books and 147 scientific papers)

Books

1. **Glele Kakai R.** (2010). Règles de classement et taux d'erreur en analyse discriminante. Edition Européenne Universitaire, Allemagne, 237p.
2. **Glele Kakai R.,** Sodjinou E., Fonton H. N. (2006). Conditions d'application des méthodes statistiques paramétriques. Bibliothèque Nationale, Bénin, 106 p.
3. **Glele Kakai R.,** Palm R., Kokode G. (2005). L'analyse discriminante décisionnelle: aspects théoriques et applications sur ordinateur. Bibliothèque Nationale, Bénin, 64 p.
4. **Glele Kakai R.,** Kokode G. (2004). Techniques statistiques univariées et multivariées: applications sur ordinateurs. Bibliothèque Nationale, Bénin, 67 p.

Scientific papers

Year 2016

1. Gbedomon R. C., Assogbadjo A.E., Salako V.K., Fandohan A.B., And **Glèlè Kakai R.** (2016). Exploring the spatial configurations of home gardens in Benin. *Scientia Horticulturae* 213:13–23. DOI:10.1016/j.scienta.2016.10.020
2. Mensah S., Houehanou T., D. Assogbadjo A., **Glele Kakai R.** (2016). Latitudinal variation in the woody species diversity of *Azelia africana* Sm. habitats in West Africa. *Tropical ecology* 57(4): 1-10.
3. **Glèlè Kakai R.** (2016). Effectiveness of inventory plot patterns and spatial distribution of trees and recruits in West African forest estimates: Recent findings and perspectives. *RUFORUM Working Document Series* 14(1): 497-506.
4. Mensah S., Veldtman R., Assogbadjo A., **Glèlè Kakai R.**, Seifert T. (2016). Tree species diversity promotes aboveground carbon storage through functional diversity and functional dominance. *Ecology and Evolution*. DOI: 10.1002/ece3.2525.
5. Agbahoungba S., Assogbadjo A., Chadare F. J., Idohou R., Salako S. K., Agoyi E.E., **Glèlè Kakai R.** (2016). Ecological diversity and conservation of wild edible fruit tree species in the lama forest reserve in Benin. *Bois et forêts des tropiques* 329(3): 53-65.
6. **Glèlè Kakai R.** (2016). Strengthening capacity building in data analysis in West African Universities and research institutions: A three-year experience of the Master programme in Biostatistics at the University of Abomey-Calavi, Benin. *African Journal of Rural Development*, Vol. 1(3): 2016: pp. 253 – 259.
7. Sinasson K.S.G., Shackleton C.M., **Glèlè Kakai R.**, And Sinsin B. (2016). Forest degradation and invasive species synergistically impact *Mimusops andongensis* (Sapotaceae) in Lama Forest Reserve, Benin. *Biotropica*. DOI: 10.1111/btp.12370
8. Idohou R., Peterson A.T., Assogbadjo A.E., Vihotogbe R.L., Padonou E. And **Glèlè Kakai R.** (2016). Identification of potential areas for wild palm cultivation in the Republic of Benin through remote sensing and ecological niche modeling. *Genetic Resource Crops Evolution*. DOI 10.1007/s10722-016-0443-7
9. Gbedomon R.C., Salako V.K., Chadare F.J., **Glele Kakai R.** And Assogbadjo A.E. (2016). Gendered motivation for home gardening and maintenance of Agrobiodiversity: a case study in Benin, West Africa. *Annales des sciences agronomiques* 20 (2) : 93-106, 2016 ISSN 1659 – 5009
10. Donou M.T., Houehanou T., Assogbadjo A.E., **Glele Kakai R.** And Agbangla C. (2016). Use of *Raffia* species (*Raffia* spp.) and its impact on socioeconomic characteristics of harvesters in Benin (West Africa). *International Journal of Biomolecules and Biomedicine*, Vol. 5, No. 1, p. 1-19, 2015
11. Akpona T.J., Idohou R Assogbadjo A.E., Salako V.K. And **Glèlè Kakai R.** (2016). History, Impact of Soil Types on Stand Structure and Growth of the Dry Zone Mahogany (*Khaya senegalensis* (Desr.) A.Juss.) in Plantation in Benin (West Africa). *Environment and Ecology Research* 4(4): 193-199, (2016), DOI: 10.13189/eer.(2016).040402
12. Mensah S., **Glele Kakai R.**, Seifert T. (2016). Patterns of biomass allocation between foliage and woody structure: the effects of tree size and specific functional traits. *Annals of Forest Research*. DOI: 10.15287/afr.(2016).458.
13. Mensah S., Veldtman R., Du Toit B., **Glele Kakai R.**, Seifert T. (2016). Aboveground Biomass and Carbon in a South African Mistbelt Forest and the Relationships with Tree Species Diversity and Forest Structures. *Forests*. DOI: 10.3390/f7040079.
14. Pomalegni S.C.B., Gbemavo D.S.J.C., Kpade C.P., Babatoundé S., Chrysostome C.A.A.M., Koudandé O.D., Kenis M., **Glèlè Kakai R.**, Mensah G.A. (2016). Perceptions

- et facteurs déterminant l'utilisation des asticots dans l'alimentation des poulets locaux (*Gallus gallus*) au Bénin. *Journal of Applied Biosciences* 98:9330 – 934.
15. Atidegla Sc., Huat J., Agbossou E.K., Saint-Macary H., **Glele Kakaï R.** (2016). Vegetable Contamination by the Fecal Bacteria of Poultry Manure: Case Study of Gardening Sites in Southern Benin. *International Journal of Food Science*.
 16. Idohou R., Azihou F., Adomou A., Assogbadjo A.E., **Glèlè Kakaï R.L.** (2016). Influence of the landscape context on stand structure and spatial patterns of the doum palm (*Hyphaene thebaica*) in the Republic of Benin (West Africa). *Agroforest Syst.* DOI 10.1007/s10457-016-9920-4.
 17. Camara M., Gbemavo C.D.S.J., Salako V.K., Kouame F.N., Sambou B., **Glèlè Kakaï R.L.** (2016). Woody plant species diversity in the last wild habitat of the Derby Eland (*Taurotragus derbianus* derbianus Gray, 1847) in Niokolo Koba National Park, Senegal, West Africa. *International Journal of Biodiversity and Conservation* 8(2): 32-40.
 18. Gbedomon C.R., Floquet A., Mongbo R., Salako K.V., Fandohan A.B., Assogbadjo A.E., **Glèlè Kakaï R.** (2016). Socio-economic and ecological outcomes of community based forest management: A case study from Tobé-Kpobidon forest in Benin, Western Africa. *Forest Policy and Economics*. 46–55
 19. Mensah S., Assogbadjo A.E., Salako V.K., Ago E.E., **Glèlè Kakaï R.** (2016). Accounting for tree spatial distribution in a comparison of plot sizes and shapes in dense forest and woodland in Benin (West Africa). *African Journal of Ecology*. DOI: 10.1111/aje.12269. 87–94.
 20. **Glèlè Kakaï R.**, Salako V.K., Lykke A.M. (2016). Techniques d'échantillonnage en étude de végétation *Annales des Sciences Agronomiques 20 – Spécial Projet Undesert-UE: 1-13.*
 21. **Glèlè Kakaï R.**, Bonou W., Lykke A.M. (2016). Approche méthodologique de construction et d'interprétation des structures en diamètre des arbres. *Annales des Sciences Agronomiques 20 – Spécial Projet Undesert-UE:99-112.*
 22. **Glèlè Kakaï R.**, Lykke A.M. (2016). Aperçu sur les méthodes statistiques univariées utilisées dans les études de végétation. *Annales des Sciences Agronomiques 20 – Spécial Projet Undesert-UE : 113-138.*
 23. **Glele Kakaï R.**, Salako V.K., Padonou E.A., Lykke A.M. (2016). Méthodes statistiques multivariées Utilisées En Écologie. *Annales des Sciences Agronomiques 20 – Spécial Projet Undesert-UE : 139-157.*
 24. Thiombiano A., **Glele Kakaï R.**, Bayen P., Boussim J.I. Mahamane A. (2016). Méthodes et dispositifs d'inventaires forestiers en Afrique de L'ouest : État des deux et propositions pour une harmonisation. (2016). *Annales des Sciences Agronomiques 20 – Spécial Projet Undesert-UE: 15-31.*
 25. Pomalegni S.C.B., Babatounde S., **Glele Kakaï L.R.**, Mensah G.A. (2016). Synthèse bibliographique sur l'alimentation, la consommation et la digestibilité alimentaire chez le grand aulacode (*Thryonomys swinderianus*). *Annales des sciences agronomiques* 19(2): 401-417.
 26. Donou Hounsode M.T., Assogbadjo Achille E. Houehanou T., **Glele Kakaï R. L.**, Agbangla C. (2016). Facteurs socio-économiques influençant l'usage des raphias au Bénin (Afrique de l'ouest). *Revue Cames*, 4(1):6-21.
 27. Hounkpevi A., Tosso F., Gbemavo D.S.C., Kouassi E.K., Kone D., **Glele Kakaï R.** (2016). Climate and potential habitat suitability for cultivation and in situ conservation of the black plum (*Vitex doniana* Sweet) in Benin, West Africa. *International Journal of Agronomy and Agricultural Research* 8(4): 67-80.

28. Hounkpevi A., Azihou A.F., Kouassi E.D.K., Porembski S., **Glele Kakaï R.** (2016). Climate-induced morphological variation of black plum (*Vitex doniana* Sw.) in Benin, West Africa. *Genet Resour Crop Evol.* DOI 10.1007/s10722-016-0409-9.
29. Idohou R., Assogbadjo A.E., **Glèlè Kakaï R.**, Peterson A. T. (2016). Spatio-temporal dynamic of suitable areas for species conservation in West Africa: eight economically important wild palms under present and future climates. *Agroforest Systems.* DOI:10.1007/s10457-016-9955-6.

Year 2015

30. Pomalegni S.C.B., Babatounde S., Glele Kakaï L. R., Mensah G. A. (2015). Synthèse bibliographique sur l'alimentation, la consommation et la digestibilité alimentaire chez le grand aulacode (*Thryonomys swinderianus*). *Annales des sciences agronomiques* 19(2) volume spécial: 401-417.
31. Amagnide A.G., Salako V., Donou Hounsode M., Sinsin F., Orékan V., Dan C., **Glèlè Kakaï R.** (2015). Ecological consequences of anthropogenic pressure in Wari-Marô Forest Reserve (Benin, West Africa). *Journal of Agriculture and Environment for International Development*, 109(2): 271-289.
32. Gbemavo D. S. J. C., Gandji K., Gnangle P. C., Assogbadjo A. E., Sokpon N., Glele Kakaï R. L. (2016). Adaptation écologique et modélisation du rendement du *Jatropha curcas* L. en fonction des caractéristiques morphologiques le long d'un gradient climatique. *Agronomie Africaine* 27 (3) : 201 – 211.
33. Glele Kakaï R., Lykke A. M. (2015). Aperçu sur les méthodes statistiques univariées utilisées dans Les études de végétation. *Annales des Sciences Agronomiques* 19 - special Projet Undesert-UE: 99.
34. **Glele Kakaï R.**, Salako V. K., Padonou E. A. Et Lykke A. M. (2015). Méthodes statistiques multivariées utilisées en écologie. *Annales des Sciences Agronomiques* 19(1) : 9-26.
35. **Glele Kakaï R.**, Salako V.K., Lykke A. M. (2015). Techniques d'échantillonnage en étude de végétation. *Annales des Sciences Agronomiques* 19(1) : 49-62.
36. Thiombiano A., **Glele Kakaï R.**, Bayen P., Boussim J. I. Mahamane A. (2015). Méthodes et dispositifs d'inventaires forestiers en Afrique de l'ouest : état des lieux et propositions pour une harmonisation. *Annales des sciences agronomiques - spécial* 19(1).
37. Salako K., Azihou A.F., Assogbadjo A.E., Houehanou H.T., Kassa B. **Glele Kakaï R.** (2015). Elephants-induced damage drives spatial isolation of the dioecious palm *Borassus aethiopicum* Mart. (Arecaceae) in the Pendjari National Park, Benin. *African journal of ecology.* DOI: 10.1111/age.12253.
38. Sinsin F., **Glele Kakaï R.**, Orthmann B., Sinsin B. (2015). Tree-ring: a suitable implement for spatial and temporal fire distribution analysis in savanna woodland and dry forest. *Journal of Forestry Research.* DOI 10.1007/s11676-015-0047-7.
39. Agoyi E. E. Padonou E. A., Amoussa W., Assogbadjo A.E., **Glele Kakaï R.**, Sinsin B. (2015). Morphological variation, cultivation techniques and management practices of *Moringa oleifera* in Southern Benin (West Africa). *International Journal of Agronomy and Agricultural research* 6(3):97-105.
40. Padonou Ea., Assogbadjo Ae., **Glele Kakaï R.**, Lykke Am., Sinsin B., Axelsen J. (2015). Investigations of on farm seedling productivity of the rare and declining *Caesalpinia bonduc* in Benin (West Africa) by aid of simulation modelling. *International Journal of Agronomy and Agricultural research* 6(3):116-131.
41. Padonou E.A., Ahossou O.D., Okou F.O.Y., Assogbadjo A.E., **Glele Kakaï R.**, Lykke A. M., Sinsin B. (2015). Impact of climate on seed morphology and plant growth

- Caesalpinia bonduc* L. in West Africa. *International Journal of Agronomy and Agricultural research* 6(3):86-96.
42. Donou Hounsode M., **Glele Kakai R.**, Azihou F., Ouedraogo A. (2015). Efficiency of inventory plots patterns for the estimation of woody vegetation recruits density in a tropical dense forest. *African journal of ecology*: 53, 355–361.
 43. Gnonlonfoun I., **Glele Kakai R.**, Salako V.K., Assogbadjo A.E., Ouédraogo A. (2015). Structural analysis of regeneration in tropical dense forest: combined effect of plot and spatial distribution patterns. *Acta botanica gallica* 162(1): 79-87.
 44. Tovissodé F. C., Honfo H. S., Salako V. K., Gnanglè C. P., Mensah S., **Glele Kakai R.** (2015). Population structure of two bamboo species in relation to topographical units in the Republic of Benin (West Africa): implications for sustainable management. *Acta botanica gallica* 162(1): 89-96.
 45. Honfo H., Gnanglè C., Mensah S., Salako V.K., Assogbadjo A.E., Agbangla C. **Glèlè Kakai R.** (2015). Traditional ecological knowledge and use value of bamboos in southern Benin: implications for their sustainable management. *Ethnobotany research applications* 14:139-153.
 46. Padonou E.A., Bachmann Y., **Glèlè Kakai R.**, Lykke A.M., Sinsin B. (2015). A Spatial distribution of bowal and differences in physicochemical characteristics between bowal and woodland soils in Benin, West Africa. *CATENA* 124: 45-52.
 47. Mensah S., Houehanou T.D., Sogbohossou E. A., Assogbadjo A.E., **Glèlè Kakai R.** (2015). Effect of human disturbance and climatic variability on the population structure of *Azzeria africana* Sm. ex pers. (Fabaceae–Caesalpinioideae) at country broad-scale (West Africa). *South African Journal of Botany* 95(0):165-173.
 48. **Glele Kakai R.**, Salako V. K., Padonou E. A., Lykke A. M. (2015). Méthodes statistiques multivariées utilisées en écologie. *Annales des Sciences Agronomiques* 19(1): 9-26
 49. Idohou R., Ariño H.A., Assogbadjo A.E., **Glele Kakai R.**, Sinsin B. (2015). Knowledge of diversity of wild palms (Arecaceae) in the republic of Benin: finding gaps in the national inventory by combining field and digital accessible knowledge. *Biodiversity Informatics*, 10/45-55.
 50. Akpona T. J. D. Akpona H. A., Djossa B. A. Savi M. K. Dainou K.. Ayihouenou B. **Glele Kakai R.** (2015). Impact of land use practices on traits and production of Shea butter tree (*Vitellaria paradoxa* C.F. Gaertn.) in Pendjari Biosphere Reserve in Benin. *Agroforestry systems*. DOI 10.1007/s10457-015-9847-1.
 51. Yévidé A.I., Ganglo J.C., **Glèlè Kakai R.**, De Carnnière C. (2015). Which abiotic factors have the most influence on the growth of trees in Beninese coppice teak Stands? *Suranaree J. Sci. Technol.* 22(1):51-59.
 52. Mensah S., **Glele Kakai R.**, Salako K.V., Ago E.E., Assogbadjo A.E. (2015). Accounting for tree spatial distribution in a comparison of plot sizes and shapes in dense forest and woodland in Benin (West Africa). *African journal of ecology*. DOI: 10.1111/aje.12269.

Year 2014

53. Yevide A., Ganglo J.C., **Glele Kakai R. L.**, De Canniere C., Fonton N.H. (2014). Growth modeling of short rotation coppice teak (*Tectona grandis* L.f) stands in Republic of Benin. *International Journal of Advance Agricultural Research*. 2(4):58-66.

54. Idohou R., Fandohan B., Salako V. K., Kassa B., Gbedomon R. C., Yedomonhan H., **Glele Kakai R. L.**, Assogbadjo A.E. (2014). Biodiversity conservation in home gardens: traditional knowledge, use patterns and implications for management. *International Journal of Biodiversity Science and Management* 10(2): 89–100.
55. Azihou A.F., **Glele Kakai R.**, Sinsin B. (2014). Importance of functional traits and regional species pool in predicting long-distance dispersal in savanna ecosystems. *Plant ecology* 215(6): 651-660.
56. Gbemavo C. J. S. D., Gnangle C. P., Assogbadjo E. A., **Glele Kakai R.** (2014). Analyse des perceptions locales et des facteurs déterminant l'utilisation des organes et des produits du *Jatropha curcas* Linn. (Euphorbiaceae) au Bénin. *Agronomie africaine* 26(1): 69-79.
57. Odame O. E., Atinuke O. A., **Glele Kakai R.** (2014). ARIMA-Noise Model for A Segmented Intervention Analysis of Maternal Health Policy on Assisted Delivery. *International Journal of Applied Mathematics and Statistics* 52(1):62-71.
58. Vihotogbe R, **Glele Kakai R.**, Bongers F., Van Andel, B., Van Den Berg R. G., Insin B., Sosef M. S. M. (2014). Impacts of the diversity of traditional uses and potential economic value on food tree species conservation status: case study of African bush mango trees (Irvingiaceae) in the Dahomey Gap (West Africa). *Plant Ecology and Evolution* 147(1):109–125.
59. Padonou E.A, Kassa B, Assogbadjo A.E, Fandohan B, Chakeredza S, Glèlè Kakai R, Sinsin B. (2014). Natural variation in fruit characteristics and seed germination of *Jatropha curcas* in Benin, West Africa. *Journal of Horticultural Science and Biotechnology* 89(1):69–73.
60. Gbemavo D. S. J. C., Gnangle P. C., Azontonde A., **Glele Kakai R. L.** (2014). Modélisation du stock de biomasse et dynamique de séquestration minérale et du carbone de *Jatropha curcas* L. sous différents types de sol au Bénin. *Annales des Sciences Agronomiques* 18 (1) : 1-20.
61. Vitoule E.T., Houéhanou T., Kassa B., Assogbadjo A.E., **Glèlè Kakai R.**, Djego J., Sinsin B. (2014). Endogenous knowledge and human disturbance impact on abundance of two underutilized wild edible tree species in southern Benin. . *QScience Connect* 2014(0):15.

Year 2013

62. Houeto G., **Glele Kakai R.**, Salako K. V., Assogbadjo A., Fandohan B., Sinsin B., Palm R. (2013). Effect of inventory plot patterns in the floristic analysis of tropical woodland and dense forest. *African journal of ecology* 52, 257–264.
63. Padonou E.A., Kassa B., Assogbadjo A.E., Chakeredza S., Babatoundé B., **Glèlè Kakai R.** (2013). Differences in germination capacity and seedling growth between different seed morphotypes of *Azalia africana* Sm. in Benin, West Africa. *Journal of Horticultural Science and Biotechnology* 88(6): 679–684.
64. Lokonon B. E., Bonou W. N., Kassa B., Azihou A. F., Assogbadjo A., Babatoundé S., **Glèlè Kakai R.** (2013). Structural and ethnobotanical characterization of velvet tamarind (*Dialium guineense* Wild), a multipurpose tree species. *Agronomie africaine* 25 (2): 121 – 131.
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6. Akpona J.D.T., Akpona H.A., Ayihouenou E.B., **GLÈLÈ KAKAÏ R.**, Sinsin B. (2014). Impact of land use practices on traits and production of Shea Butter Tree (*Vitellaria Paradoxa* C.F. Gaertn.) in Benin. 24th World Congress of the International Union of Forest Research Organization (IUFRO), 5-11th October 2014. Salt Lake City, USA.
7. Salako V.K., Kènou C., Houéhanou T., Assogbadjo A., **GLÈLÈ KAKAÏ R.** (2014). Impact of traditional agroforestry practices on conservation effectiveness of Non-Timber Forest Products (NTFPs) providing-Trees: case study of *Borassus aethiopum* Mart. (Arecaceae) in Benin. 24th World Congress of the International Union of Forest Research Organization (IUFRO), 5-11th October 2014. Salt Lake City, USA.
8. Idohou R., Assogbadjo A.E., Agbangla C., Adomou A.C., **GLÈLÈ KAKAÏ R.** (2014). Spatial dynamic of suitable habitat for the neglected and Underutilized *Hyphaene thebaica*

- Mart. in Benin (West Africa). 1st conference of the national network of researchers on neglected and underutilized species in Benin, Abomey-Calavi, 27-28th February 2014, Abomey-Calavi, Benin.
9. Salako K.V., Assogbadjo A.E., Adomou A.C., Agbangla C., **Glèlè Kakai R.** (2014). Abundance and ecology of the threatened, neglected and underutilized palm species *Borassus aethiopum* Mart. in Benin. 1st conference of the national network of researchers on neglected and underutilized species in Benin, Abomey-Calavi, 27-28th February 2014, Abomey-Calavi, Benin.
 10. Idohou R., Assogbadjo A.E., Fandohan B., Gouwakinnou G.N., **Glèlè Kakai R.**, Sinsin B. & Maxted N. (2013). Biodiversity and Prioritization of the Crop Wild Relatives in Benin. 3rd International Conference on neglected and Underutilized Species, 24-27 September 2013. Accra, Ghana.
 11. Salako K.V., Fandohan B., Assogbadjo A.E., Chakeredza S., Dullo M.E., **Glèlè Kakai R.L.** (2013). Home gardens: An assessment of their biodiversity and potential contribution to conservation of threatened species and crop wild relatives in Benin. 14th Students Conference on Conservation Science (SCCS-2013), University of Cambridge, 19-21st March 2013. Cambridge, UK.
 12. Salako K.V., **Glèlè Kakai R.L.** (2013). Relative performance of non-metric multidimensional scaling in vegetation studies: case study of the Lama Forest Reserve (Benin). 2nd Conference on Statistics Applied to Development in Africa (SADA), ISBA, University of Abomey-Calavi, 5-8th March 2013. Cotonou, Benin.
 13. Salako K.V., **Glèlè Kakai R.L.** (2013). Utilisation des méthodes multivariées et de rééchantillonnage pour l'estimation de l'erreur de caractérisation floristique de la végétation en forêt dense. 2nd Conference on Statistics Applied to Development in Africa (SADA), ISBA, University of Abomey-Calavi, 5-8th March 2013. Cotonou, Benin.
 14. 10-14 September, 2012: *22nd Annual meeting of the new champions 2012*, The World Economic Forum Tianjin, China.
 15. 21-23 November, 2011: *22nd General meeting of the Academy of sciences for the developing world*, Trieste, Italy. Presentation: Estimation of the density of recruitments in tropical dense forest: efficiency of inventory plots patterns.
 16. June 2010: *21st annual session of The International Environmetric Society (TIES/ISI)*, Margarita Islands, Venezuela with paper presentation on Characterization of the habitat of an endangered species (*Afzelia africana* Sm.) in the Lama Forest reserve (Benin, West Africa), 20-25 June, 2010.
 17. 20-22 October 2010: *International and interdisciplinary conference on food, medicinal and cosmetic plants in sahelian zones*. Paper presentation: Indigenous knowledge and diversity of wild fruit trees in agroforestry systems of Bénin), Dakar, 20-22 October.
 18. August 2009: *57th session of International Statistical Institute (ISI)*, Durban, South Africa with paper presentation on Relative efficiency of non parametric error rate estimators in multi-group linear discriminant analysis, 16 – 22 august, 2009.
 19. August 2007: *56th session of International Statistical Institute (ISI)*, Lisboa, Portugal with paper presentation on Data driven choice of a classification rule in discriminant analysis, 22 – 29 august, 2007.
 20. April 2005 : *55th session of International Statistical Institute (ISI)*, Sydney, Australia with paper presentation on Relative Performance of Error Rate Estimators in Linear, Quadratic and Logistic Discriminant Analysis, 5 – 12 April, 2005.
 21. February, 2005: *100 Year of Agricultural research in Benin*, Niaouli, Benin, with paper presentation: Utilisation des mathématiques et statistiques en agriculture, 14 – 18 February, 2005.

22. May, 2004 : *36ème journées françaises de statistiques*, Montpellier, French, with paper presentation on Performance relative des règles linéaire, quadratique et logistique en analyse discriminante, 24 – 28 may, 2005.
23. July 2002: *21th International Biometric Conference (IBC)*, 2002, Freiburg, Germany, with paper presentation: Error rates estimation in linear discriminant analysis, 21 - 26 July, 2002.

Theses

1. **GLÈLÈ KAKAÏ R.** (2005). Comparaison empirique des règles de classement et des estimateurs des taux d'erreur en analyse discriminante. PhD thesis. Gembloux Agricultural University, Gembloux, 202p.
2. **GLELE KAKAÏ R.** (2001). Estimation des taux d'erreur en analyse discriminante. MSc Thesis. Gembloux Agricultural University, Gembloux, 73p.
3. **GLELE KAKAÏ R.** (2000). Etablissement d'une table de cubage de *Acacia auriculiformis* au Sud-Bénin, Mémoire d'Ingénieur Agronome, FSA/UAC, Abomey-Calavi, 110 p.

COMPUTER SKILL

Word Processing: Microsoft office (Word, Excel, PowerPoint, FrontPage, Access).

Statistical Software: SAS, Minitab, SPSS, STATISTICA, R, GENSTAT.

Statistical Language: SAS, MATLAB, MINITAB, R.

LANGUAGE SKILLS

Language	Writing	Speaking	Listening
English	2	2	2
French	4	4	4

1 = Fairly good; 2 = Good; 3 = Very good; 4 = Excellent.