

Professor Romain Lucas GLELE KAKAÏ

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TITLE: Professor of Biometry and Forest modeling

FUNCTIONS: Professor of Biometry at the University of Abomey-Calavi (Republic of Bénin)

- Coordinator of the doctoral training in Biostatistics
- Head of the *Laboratoire de Biomathématiques et d'Estimations Forestières*
- President of the scientific council of Agronomic sciences of the University of Abomey-Calavi
- President of the scientific council of the National Institute of Agricultural Research of Benin
- President of the African German network of Excellence in Sciences (AGNES)

CIVIL STATUS: Married, 3 children

PERMANENT ADDRESS: Address: 04 BP 1525, Cotonou, Benin; Phone.: +229 95840800 /

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Website: <http://www.labef-uac.org>

EDUCATION

Full Professor (2015 – till now)

University of Abomey-Calavi

Associate Professor (2011-2015)

University of Abomey-Calavi

Senior lecturer (2009-2011)

University of Abomey-Calavi

Lecturer (2007-2009)

University of Abomey-Calavi

Doctor in agronomic sciences, Major: Biometry (The Highest distinction with Congratulations)

Gembloux Agricultural University, Belgium, 2005

MSc in Applied statistics (Ranked First)

Gembloux Agricultural University, Belgium, 2001

Engineer Degree in Agronomy, Major: Forestry (Ranked First)

Faculty of Agronomic Sciences, University of Abomey-Calavi, 2000.

Bachelor Degree in Agronomy (Ranked First)

Faculty of Agronomic Sciences, University of Abomey-Calavi, 1998.

PRIZES AND INTERNATIONAL DISTINCTIONS

- 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 biometrist in Belgium. National Association of French Belgian biometrists, Belgium, 2002.
- Member of the selection committee of **the International Climate Protection Fellowship Programme** of the Alexander von Humboldt Foundation (Germany), since 2017
- President of **AGNES** (African-German Network of Excellence in Science), since 2019.
- Member of the **Global Young Academy of Sciences**, 2012-2018.
- Member of **The Young Affiliate Network of the World Academy of Sciences**, Since 2011.
- Member of **the World Economic Forum** community (Young scientists). Participation in the Annual meeting of the new champions 2012, Tianjin, China.
- Fellow of **the Alexander von Humboldt Foundation** for outstanding achievements in research. Germany, 2007.

PROFESSIONAL EXPERIENCE

Lecturer and Researcher, University of Abomey-Calavi, 2007-
Biometrician (Part time job), Africa Rice (Ex ADRAO), 2006-2008
Biometrician, National Institute of Agricultural Research of Bénin, 2002-2007

PhD STUDENTS CURRENTLY UNDER SUPERVISION

Hermann Honfo (2016-2019). Parameters Estimation methods in Multivariate linear mixed models: application to the estimation of natural regeneration of *Adansonia digitata*.
Defended January 2020

Bruno Lokonon (2016-2019). Empirical performance of parameter estimation methods in Generalized Linear Mixed Models (GLMMs) with applications to ecological data.
Defended January 2020

Castro Hounmenou (2016-2019). Global optimization in multilayer perceptron neuronal networks.

Corine Sinsin (2016-2019). Resilience and vulnerability of mangroves to climate change in Benin, West Africa.

Frederick Tovissode (2017-2020). Performance of Generalized Linear and Nonlinear Mixed Models under flexible semi-nonparametric and parametric distributions.

Serve Zanvo (2017-2020). Impact of human disturbances on stand structure, dynamics, and ecosystem services of mangroves in southern Benin, West-Africa: implications for their sustainable management

Essomanda Tchandao (2017-2020). Multi-block data analysis: new developments.

Aubin Amagnide (2017-2019). Empirical analysis of plotless sampling techniques in vegetation studies.

Ariane Houetohossou (2020-2022). Architectural and parametric optimization of pre-trained Deep Convolutional Neural Network (DCNN): Stress detection on tomato plants under climate and infection based simulated environments.

VISITING PROFESSOR IN OTHER AFRICAN UNIVERSITIES

1. Kwame Nkrumah University of Science and Technology (KNUST), **GHANA**. Contact person: Prof. Odai. Email: snodai@yahoo.com. **Course: Univariate and Multivariate statistical methods** for PhD Students in the Regional Water and Environmental Sanitation Centre, Kumasi (RWESCK). Since 2015.
2. Wascal's GRP-Climate Change and Biodiversity, University Félix Houphouët Boigny (**COTE D'IVOIRE**). **Course: Sampling techniques and experimental designs** for PhD students in Natural resources and climate change. Contact Person: Prof. Kone Daouda. Email: daoudakone2013@gmail.com (2014 -)
3. University of Abdou Moumouni; Faculty of Sciences, **NIGER**. Contact person: Prof. Bakasso Yacoubou. BP 10662 Niamey Niger. E-mail: bakasso@yahoo.com. Phone: +227 90381418. **Course: Biostatistics** for MSc Students. (2010-2017).
4. University of Lome; Faculty of Sciences, **TOGO**. Contact Person: Prof. Kokou Kouami. **Course: Linear mixed effects models** for students in WASCAL Master Research Program in Climate Change and Human Security. Email: kokoukouami@hotmail.com. Since 2018
5. University of Kara; Faculty of Sciences, **TOGO**. Contact person: Prof. Baba Gnon. Email: gnonbaba@yahoo.fr. **Course: Linear models** for BSc students in statistics. (2010-2018).
6. Kwame Nkrumah University of Science and Technology (KNUST), **GHANA**. Contact person: Prof. Agyare. Email: wagyare@yahoo.co.uk. Course: **Univariate and Multivariate statistical methods** for PhD Students in WASCAL Doctoral Programme Climate Change and Land Use. Since 2018.
7. Higher National Agronomy and biotechnology Institute (**GABON**). **Lecture in Experimental designs** for engineer degree students in agronomy. Contact person: Prof. Kumulungui Brice Serge. Email: kumulungui@yahoo.fr (2013-2014).

INDIVIDUAL RESEARCH GRANTS

1. TWAS (Third World Academy of Sciences), 2011
2. RSG Foundation (England), 2008
3. Wild Idea Foundation (USA), 2008
4. Alexander von Humboldt Foundation, 2007
5. GTZ-PROCGRN-BENIN, 2007
6. TWAS (Third World Academy of Sciences), 2006
7. GTZ-PROCGRN-BENIN, 2006
8. IFS (International Foundation for Sciences), 2006
9. AFORNET, 2005;
11. IFS (International Foundation for Sciences), 2003
10. GTZ-PROCGRN-BENIN, 2003
11. AUF (Agence Universitaire de la Francophonie), 2002
12. ANAFE/ICRAF, 1999. Many national grants.

COLLABORATIVE RESEARCH PROJECTS

- 1. GREPPAO.** Gestion et résilience des pêcheries de petits pélagiques en Afrique de l'Ouest. (2019-2021).
- 2. BAOCHAIN.** Scaling up African baobab food products valuation through enhancement of their safety and value chains for food and nutritional security in Benin (2018-2021).
- 3. ARES-POP.** Morpho-physiological adaptation and genetic diversity of keystone mangrove tree species in response to human disturbance regimes in Benin: implications for mangrove conservation. 2018.
- 4. TREE FOOD.** Enhancing nutritious food availability through promotion of native edible tree/shrub species in Sub-Saharan Africa (Bénin, Burkina Faso, Niger, Mali). (2017-2019)
- 5. OSFACO.** Setting up a system of evaluation of the land use dynamics and follow up indicators of the transboundary biosphere reserve of the Mono (Togo, Bénin). (2015-2019).
- 6. FNRSIT.** 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. (2016-2018).
- 7. SCOPA.** Organic Cotton for Employment, Growth and Environment? (2015-2019).
- 8. BIOCEL.** Biologie de la Conservation et Ethnopharmacologie des Ligneux médicinaux de la pharmacopée béninoise. (2016-2018).
- 9. 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.
- 10. WEAMU.** Projet d'harmonisation des méthodes d'étude de la flore et de la vegetation en Afrique de l'Ouest. ECOWAS (Economic Community of West African States), Coordinator for the whole project. Period: 2012-2014.
- 11. 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.
- 12. WILD PALM.** Les palmiers sauvages du Bénin : utilisation, biodiversité, écologie, importance économique, et conservation, 2012. I'm Senior researcher in the project. Period: 2012-2015.

AFFILIATION

AGNES (African-German Network of Excellence in Science), 2015.
Global Young Academy of Sciences, 2012-2018.
Scientific and Technical council for the development of maize culture in Benin, 2012- .
The World Academy of Sciences (Young affiliate), 2011-2015.
Statistical Pan African Society (SPAS), 2009-
International Statistical Institute (ISI, the Netherlands), 2005- .
African Forestry Research Network, 2004.

RESEARCH INTEREST

- Linear and Generalized linear mixed effect models;
- Multi-bloc data analysis;
- Artificial Intelligence applied in Agriculture

- E-M Algorithms and its variants in non-linear models under scale mixture of non-symmetric normal distributions;
- Ecology and management of mangroves;
- Spatial distribution modeling;
- Modeling of structure and dynamics of forest species populations in Benin.

SCIENTIFIC PUBLICATIONS (4 books and 200 scientific papers)

Books

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

Scientific papers

2020

200. Lokonon B. E., Senou M., **Glèle Kakaï R.** (2020). Effect of misspecification of random effects distribution on the performance of parameters estimation methods in binary logistic mixed models. *Afrika Statistika* 15(1): 2247-2262.
199. Lokonon B., **Glele Kakaï R.** (2020). Empirical assessment of the performance of four estimation methods in Generalized linear mixed models with binary outcomes. *International Journal of Mathematics and Statistics*, 21(2): 40-56.
198. Mensah S., Egeru A., Assogbadjo A.E., **Glèle Kakaï R.** (2020). Vegetation structure, dominance patterns and height growth in an Afromontane forest, Southern Africa. *Journal of Forestry Research* 31(2): 453-462.
197. Bodjrenou U.F.S., Amoussa Hounkpatin W., Mitchodigni I., Salako V., **Glèle Kakaï R.**, Dadele Y., Ntandou Bouzitou G., Schneider L., Mutanen M., Savy M., Kennedy G., Hounhouigan J. D., Termote C. (2020). Comparing video and poster-based education for improving 6-17 months children feeding practices: a cluster randomized trial in rural Benin. *Progress in nutrition* 22(1): 330-342.
196. Hounondonougbo J. S. H., Kassa B., Mensah S., Salako V. K., **Glèle Kakaï R.**, A. E. Assogbadjo A global systematic review on conservation and domestication of *Parkia biglobosa* (Jacq.) R. Br. ex G. Don, an indigenous fruit tree species in Sub-Saharan African traditional parklands: current knowledge and future directions. *Genet Resour Crop Evol* DOI: 10.1007/s10722-020-00892-w.
195. Hounondonougbo, J. S. H., B. Kassa, S. Mensah, V. K. Salako, **R. Glèle Kakaï**, and A. E. Assogbadjo (2020). “A global systematic review on conservation and domestication of *Parkia biglobosa* (Jacq.) R. Br. ex G. Don, an indigenous fruit tree species in Sub-Saharan African traditional parklands: current knowledge and future directions.” *Genetic Resources and Crop Evolution*: 67:1051–1066.
194. Mensah S., Salako K. V., Assogbadjo A. E., **Glèle Kakaï R.**, Sinsin B., Seifert T. (2020). Functional trait diversity is a stronger predictor of multifunctionality than dominance:

Evidence from an Afromontane forest in South Africa. *Ecological indicators*. DOI: 10.1016/j.ecolind.2020.106415.

193. Dayou E. D., Zokpodo B. K., Montcho M., Ajav E. A., Bamgboye I. A., **Glèlè Kakaï R.** (2020). Current agricultural and environmental policies in Benin Republic. *Sustainable Agriculture Research* 9(2): 87-100.

2019

192. Tchandao Mangamana, E., Cariou, V., Vigneau, E., **Glèlè Kakaï, R.**, & Qannari, E. M. (2019). Unsupervised multiblock data analysis: A unified approach and extensions. *Chemometrics and Intelligent Laboratory Systems*, 103856.
191. Lokonon B., Beh Mba R., Gbeha M., **Glele Kakaï R.** (2019). Parameters estimations methods in Generalized linear mixed effects models (GLMM) applied in ecology: a critical review. *International Journal of Engineering and Future technology*, 16(3):13-27.
190. Honfo S. H., **Glele Kakai R.** (2019). Empirical study of computational techniques used for parameters' estimation in multivariate linear. *Afrika statistika*, 14(3): 2061-2098.
189. Atanasso, J. A., Mensah, S., Azihou, A. F., Djossa, B. A., **Glèlè Kakaï, R.** & Assogbadjo, A. E. (2019). Heterospecific Tree Density and Environmental Factors Affect *Afzelia africana* Sm. Population Structure in the Pendjari Biosphere Reserve, West Africa: Implications for Management and Restoration. *Tropical Conservation Science*, 12, 1940082918822604.
188. Thierry D. Houehanou, Kathleen Prinz, Frank Hellwig, Achille E. Assogbadjo, Jens Gebauer, **Romain Glele Kakai**, Brice Sinsin (2019). Morphological trait variation and relationships of *Afzelia africana* Sm. caused by climatic conditions and anthropogenic disturbance in Benin (West Africa). *Genet Resour Crop Evol* 66(5): 1091–1105.
187. Gnonlonfoun, I., Assogbadjo, A. E., Gnanglè, C. P., & **Glèlè Kakaï, R.** (2019). New indicators of vulnerability and resilience of agroforestry systems to climate change in West Africa. *Agronomy for Sustainable Development*, 39(2), 23. DOI: 10.1007/s13593-019-0566-2.
186. Salako, V.K., Kégbé, A.M., Chadaré, F.J., Kafoutchoni, K.M., Amagnidé, A., Gbedomon, R.C., Assogbadjo, A.E., Agbangla, C., **Glèlè Kakaï, R.**, (2019). Potential for domestication of *Borassus aethiopum* Mart., a wild multipurpose palm species in Sub-Saharan Africa. *Genetic Resources and Crop Evolution*. 66(5): 1129–1144.
185. Gnonlonfoun, I., Kassa, B., Azihou, F., Mensah, S., **Glèlè Kakaï, R.**, & Assogbadjo, A. E. (2019). Perceived Effects of Elephants (*Loxodonta africana* Cuvier) Presence and Impacts on Ecosystem Services Supply in the Pendjari Biosphere Reserve, West Africa. *Tropical Conservation Science*, 12, 1940082919865979.
184. Gandji, K., Tovissodé, F. C., Azihou, A. F., Akpona, J. D. T., Assogbadjo, A. E., & **Glèlè Kakaï, R.** (2019). Morphological diversity of the agroforestry species *Moringa oleifera* Lam. as related to ecological conditions and farmers' management practices in Benin (West Africa). *South African Journal of Botany*. DOI: 10.1016/j.sajb.2019.10.004.
183. Honfo, S. H., Houetohossou, A., Assogbadjo, A., & **Glèlè Kakaï, R.** (2019). Effective use of statistical tools in agricultural sciences: a critical review of multivariate modelling methods. *Journal of Applied Biosciences*, 142: 14529-14539.

2018

182. Lokonon, B.E., Mba, R.B., Gbeha, M., **Glèlè Kakaï, R.** (2018). Parameters Estimation Methods in Generalized Linear Mixed Models (GLMMs) Applied in Ecology: A Critical Review. *International journal of engineering and future technology* 16(3):11-27.

181. Mensah, S., Egeru, A., Assogbadjo, A. E., & **Glèlè Kakaï, R.** (2018). Vegetation structure, dominance patterns and height growth in an Afromontane forest, Southern Africa. *Journal of Forestry Research*. DOI: 10.1007/s11676-018-0801-8.
180. Banla T, Houehanou TD, Savi MK, Idohou R, **Glèlè Kakaï R.**, Kokou K. (2018). Population structure of *Pterocarpus erinaceus* Poir. across a protection gradient in Sudanian savannahs of Togo, West Africa. *African Journal of Ecology*. 57(1): 104-112.
179. Gandji, K., Salako, V. K., Fandohan, A. B., Assogbadjo, A. E., & **Glèlè Kakaï, R. L.** (2018). Factors Determining the Use and Cultivation of *Moringa oleifera* Lam. in the Republic of Benin. *Economic Botany*, 72(3): 332–345.
178. Lazaro, M., Gbeha, M. and **R. Glèlè Kakaï** (2018). Influence of Missing Value Imputations on the Performance of Canonical Correspondence Analysis: Ecological Applications. *African Journal of Applied Statistics*. 5(1): 323–337.
177. Dayou, E. D., Zokpodo, K. L. B., & **Glèlè Kakaï, L.** (2018). Assessment of the physical and mechanical properties of the soils in the different agroecological zones of Benin. *Agro-Science*, 16(3): 37-45.
176. Salako, V. K., Vihotogbé, R., Houéhanou, T., Sodé, I. A., & **Glèlè Kakaï, R. L.** (2018). Predicting the potential impact of climate change on the declining agroforestry species *Borassus aethiopum* Mart. in Benin: a mixture of geostatistical and SDM approach. *Agroforestry Systems*, 93(4): 1513–1530.
175. Moussa, A. A., Salako, V. K., Gbemavo, D. C., Zaman-Allah, M., **Glèlè Kakaï, R.**, & Bakasso, Y. (2018). Performances agro-morphologiques des variétés locales et améliorées de maïs au sud-ouest du Niger. *African Crop Science Journal*, 26(2): 157-173.
174. Salako, K. V., Moreira, F., Gbedomon, R. C., Tovissodé, F., Assogbadjo, A. E., & **Glèlè Kakaï, R. L.** (2018). Traditional knowledge and cultural importance of *Borassus aethiopum* Mart. in Benin: interacting effects of socio-demographic attributes and multi-scale abundance. *Journal of ethnobiology and ethnomedicine*. DOI: 10.1186/s13002-018-0233-8.
173. Hounkpevi, A., Kouassi, E. K., & **Glèlè Kakai, R.** (2018). Effects of climatic variability and local environment patterns on the ecology and population structure of the multipurpose plant species, *Vitex doniana* Sweet (Lamiaceae) in Benin. *Tropical Ecology*, 59(1): 129-143.
172. Lokonon, B. E., Mangamana, E. T., Gnonlonfoun, I., Akpona, T. J. D., Assogbadjo, A. E., **Glèlè Kakai, R.**, & Sinsin, B. (2018). Knowledge, valuation and prioritization of 46 woody species for conservation in agroforestry systems along Ouémé catchment in Benin (West Africa). *Environment, Development and Sustainability*. DOI: 10.1007/s10668-018-0142-y.
171. Salako, V. K., Kénou, C., Dainou, K., Assogbadjo, A. E., & **Glèlè Kakai, R.** (2018). Impacts of land use types on spatial patterns and neighbourhood distance of the agroforestry palm *Borassus aethiopum* Mart. in two climatic regions in Benin, West Africa. *Agroforestry Systems*, 93(3): 1057–1071.
170. Savi, M. K., R. Noumonvi, F. J. Chadaré, K. Daïnou, V. K. Salako, R. Idohou, A. E. Assogbadjo, and **R. Glèlè Kakai** (2018). Synergy between traditional knowledge of use and tree population structure for sustainability of *Cola nitida* (Vent.) Schott. & Endl in Benin (West Africa). *Environment, Development and Sustainability*, 21(3): 1357–1368.
169. Gandji, K., Chadare, F. J., Idohou, R., Salako, V. K., Assogbadjo, A. E., & **Glèlè Kakai R.** (2018). Status and utilisation of *Moringa oleifera* Lam: A review. *African Crop Science Journal*, 26(1): 137-156.
168. Mensah, S., Salako, V. K., Assogbadjo, A. E., & **Glèlè Kakaï R.** (2018). Differential Responses of Taxonomic, Structural, and Functional Diversity to Local-Scale

- Environmental Variation in Afromontane Forests in South Africa. *Tropical Conservation Science*. DOI: 10.1177/1940082918762372.
167. Adehan, S. B., Adakal, H., Gbinwoua, D., Zoungrana, S., Toé, P., Ouedraogo, M. & **Glèlè Kakaï R.** (2018). West African Cattle Farmers' Perception of Tick-Borne Diseases. *EcoHealth*, 15(2): 437–449.
166. Dayou, E. D., Zokpodo, K. L. B., & **Glèlè Kakaï R.** (2018). Evaluation of the physical, mechanical and kinetic properties of some cereals and leguminous seeds in Benin republic. *International Journal of Engineering, Science and Technology*, 11(1): 33-42.
165. Pomalégní, S. C. B., Gbemavo, D. S. J. C., Gnanglè, P. C., Djossou, S. R., Kenis, M., Babatoundé, S., **R. Glèlè Kakaï & Mensah, G. A.** (2018). Seed cake of *Jatropha curcas* (L.), potential substrate to produce maggots as feed for reared monogastric animals. *JAPS: Journal of Animal & Plant Sciences*, 28(6):1591-1596.
164. Amagnide A., Gbeha M., **Glèlè Kakaï R.** (2018). Fitting an optimal variance-covariance structure for longitudinal data under Linear Mixed Effects Models framework: simulation-based analysis. *African Journal of Applied Statistics*, 5(2):489-502.
- 2017**
163. Atanasso, J. A., Chadare, F. J., Padonou, E. A., Ahouansinkpo, E., Koura, K., Houehanou, T., **Glèlè Kakaï R.**, Sinsin, B. (2017). Habitats and utilizations of *Lippia multiflora* moldenke: Local perception of four ethnic groups from Benin (West Africa). *Agronomie Africaine*, 29(2): 111-120.
162. Savi, M. K., Dossou-Yovo, E. R., & **Glèlè Kakaï, R.** (2017). Monte Carlo Simulations for Assessing the Performance of Permutation of Residuals Methods in One-way ANOVA. *Turkiye Klinikleri Journal of Biostatistics*, 9(3): 188-196.
161. Gbedomon, R. C., Salako, V. K., Adomou, A. C., **Glèlè Kakaï, R.** & Assogbadjo, A. E. (2017). Plants in traditional home gardens: richness, composition, conservation and implications for native biodiversity in Benin. *Biodiversity and Conservation*, 26(14): 3307–3327.
160. Goussanou, C. A., Tente, B. A., Akouehou, G., Salako, V. K., **Glele Kakaï, R. L.**, & Sinsin, B. A. (2017). Structural and spatial patterns of Isoberlinia species in a disturbed community forest (Benin, West Africa). *Kastamonu Üniversitesi Orman Fakültesi Dergisi*, 17(2), 225-237.
157. Dayou, E. D., Zokpodo, K. L. B., **Glèlè Kakaï, L. R.**, & Ganglo, C. J. (2017). Impacts of the conventional tillage tools and reduced tillage on the soil fertility preservation: critical review. *Journal of Applied Biosciences*, 117:11684-11695.
156. De souza, J. F., Gbemavo, D. S. J. C., Gnangle, P. C., Azontonde, A., Chabi adjobo, M. A., Behingan, M. B., and **Glele Kakaï, R.** (2017). Effet du pourghère (*Jatropha curcas* L.) Sur la performance agronomique du maïs (*Zea mays* L.) et du manioc (*Manihot esculenta* Crantz) et sur la fertilité du sol au sud-bénin. *Annales des sciences agronomiques* 21(2):223-245.
155. Gbedomon, R.C., Salako, V.K., Fandohan, A.B., Idohou, A.F.R., **Glèlè Kakaï, R.**, Assogbadjo, A.E., (2017). Functional diversity of home gardens and their agrobiodiversity conservation benefits in Benin, West Africa. *Journal of ethnobiology and ethnomedicine*. DOI: 10.1186/s13002-017-0192-5.
154. Sèwadé, C., Azihou, A. F., Fandohan, A. B., **Glèlè Kakaï, R.**, Mensah, G. A., & Houinato, M. R. B. (2017). Leaf biomass modeling, carrying capacity and species-specific performance in aerial fodder production of three priority browse species *Afzelia africana*, *Pterocarpus erinaceus* and *Daniellia oliveri* in Benin. *Livestock Research for Rural Development*, 29(10), N°192.

153. Sèwadé, C., Lokonon, B.E., Azihou, A.F., Akouèhou, G.S., Mensah, G.A., **Glèlè Kakaï, R.**, & Houinato, M.R.B. (2017). Use diversity and farmer's preference of 48 local multipurpose fodder trees: a comparative analysis of three sociolinguistic groups of Benin. *Annales des sciences agronomiques* 22(1): 33-52.
152. Salako, V.K., Houéhanou, T.T., Yessoufou, K., Assogbadjo, A.E., Akoègninou, A. & **Glèlè Kakaï R.** (2017). Patterns of elephant utilization of *Borassus aethiopum* Mart. and its stand structure in the Pendjari National Park, Benin, West Africa, *Tropical Ecology* 58(2): 1-13.
151. Inoussa, M. M., Padonou, E. A., Lykke, A. M., **Glèlè Kakaï, R.**, Bakasso, Y., Mahamane, A., & Saadou, M. (2017). Contrasting population structures of two keystone woodland species of W National Park, Niger. *South African Journal of Botany*, 112: 95-101.
150. Lokonon, B. E., Mangamana, E. T., **Glèlè Kakaï R.**, & Sinsin, B. (2017). Assessing local conservation priorities of useful woody species within agroforestry systems along Ouémé catchment in Benin (West Africa). *Ethnobiology and Conservation*, 93(3): 1057–1071.
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2. **Glele Kakaï R.** (2001). Estimation des taux d'erreur en analyse discriminante. MSc Thesis. Gembloux Agricultural University, Gembloux, 73p.
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COMPUTER SKILL

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

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

Statistical Language: R, SAS, MATLAB, MINITAB.

LANGUAGE SKILLS

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

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