

## PROFILE – KAKU SAGARY NOKOE, FGA



**Kaku Sagary Nokoe** is a Professor of Biometrics, Fellow of the Ghana Academy of Arts and Sciences, member of the International Biometric Society, Member of International Statistical Institute and Member of the International Association of Statistical Computing. He studied at the Universities of Ibadan (Nigeria) and British Columbia (Canada) and specialized in Resource Management, Mensuration and Applied Statistics. He has won several academic awards and scholarships including **INTERAF/AAU Scholar** (University of Ibadan); **Commonwealth Prize for Best Graduating Student**, University of Ibadan; **Macmillan-Bloedel Fellow in Mensuration**, and **University of British Columbia**

**Scholar**. He is the first recipient of the **Rob Kempton Award** of the International Biometric Society for “outstanding contribution to the development of biometry in developing countries”, and has been honoured with the **Distinguished Foresters Award** of the Professional Forestry Association of Nigeria for “*effective application of mathematics in forestry and for uplifting the image of the profession through research activities*”. Prof Nokoe was head Biometrician at several national and international agricultural research institutes and also held academic positions of Head of Department, Dean of Faculty, Pro-Vice and Deputy Vice Chancellor and Vice Chancellor in public and private tertiary institutions in Nigeria, Kenya and Ghana. He has mentored and supervised to graduation several Masters and Doctoral awards, with some currently serving as heads of tertiary and research institutions. Kaku Nokoe has a strong interest in education at all levels. He used personal funds to establish and sustain Manye Academy Axim and assisted several with scholarships and admission to various educational institutions. These educational efforts led the Nzema Maanle Council to honour him with the **Grand Order of Ankobra - after Antoine Wilhem Amo- (2010)**, **Nzema Personality of the Year 2013/14** and the Nzema Maanle Council & Development Association "**Kwame Nkrumah Award for Educational Development**" (2016). Prof Nokoe is an Institutional and Capacity Builder, and he is best in a job where he can work and interact with other people, and build trusted relationships with co-workers. He is also confident and succeeds in performing complex tasks and processes within a tight schedule, and is not bothered by occasional work stress. He is a member of Nzema Advocacy for Peace and Development (NAPaD), and serves as chairman of its Executive Council. He is a member of the Environmental Action Group and the Petroleum Hub Committee of Nzema Advocacy Groups. He has been the Dean of the Faculty of Economics and Business Administration of the Catholic University of Ghana since 2020.

### Academic Profile

Name and Rank	Kaku Sagary Nokoe, Professor
Department and	Department of Mathematics at CEMS and Department of

Faculty/School	Management at EBA
Education and Qualifications	<ul style="list-style-type: none"> <li>• BSc Forest Resource Management (1972) University of Ibadan</li> <li>• MF (1974), PhD (1976) University of British Columbia</li> <li>• Certificate Higher Education Management (2008), Galilee College (now Galilee International Management Institute), Israel</li> </ul>
Areas of Research	Biomathematics
Achievements/Awards	<ul style="list-style-type: none"> <li>• <b>Fellow</b>, Ghana Academy of Arts and Sciences</li> <li>• <b>Member</b>, International Biometric Society</li> <li>• <b>Member</b>, International Association of Statistical Computing</li> <li>• <b>Member</b>, Ghana Statistical Association</li> <li>• <b>INTERAF/AAU Scholar</b> (University of Ibadan); <b>Commonwealth Prize for Best Graduating Student</b>, University of Ibadan;</li> <li>• <b>Macmillan-Bloedel Fellow in Mensuration</b>, and <b>University of British Columbia Scholar</b>.</li> <li>• <b>Rob Kempton Award</b> of the International Biometric Society for “outstanding contribution to the development of biometry in developing countries”,</li> <li>• <b>Distinguished Foresters Award</b> of the Professional Forestry Association of Nigeria for “<i>effective application of mathematics in forestry and for uplifting the image of the profession through his research activities</i>”</li> <li>• <b>Grand Order of Ankobra</b> (Nzema Maanle Council 2010),</li> <li>• <b>Nzema Personality of the Year 2013/14</b></li> <li>• <b>Kwame Nkrumah Award for Educational Development (2016)</b> by Nzema Maanle Council &amp; Development Association</li> <li>• Founder and Financier, <b>Manye Academy</b> Axim</li> </ul>
Profile Links (e.g. Google scholar, ResearchGate, ORCID, Scopus, Scholastic, AD Index, Scholar Indexing, etc.	<p><a href="https://scholar.google.com/citations?user=rn3R1fMAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=rn3R1fMAAAAJ&amp;hl=en</a></p> <p><a href="https://www.researchgate.net/profile/K-S-Nokoe">https://www.researchgate.net/profile/K-S-Nokoe</a></p>

## Publications

1. Victoria Nutassey, Samuel Agyei, Siaw Frimpong, Siaw and Kaku Nokoe. 2023. Introducing Electronic Transaction Levy in Ghana: A possible curse or blessing? The public perception. *Cogent Economics & Finance*, 11.1, 2167361, DOI: 10.1080/23322039.2023.2167361
2. Adeniran, Tola Adeniyi and K. Sagary Nokoe, 2022. Assessing incentives of workers in private and public high schools in Sunyani Municipality, Ghana. *International Journal of Multidisciplinary Studies and Innovative Research*, Vol 10 (3): 1610-1621, DOI: <https://doi.org/10.53075/Ijmsirq/743443535>
3. Onsongo Winnie Mokeira, Shaibu Osman, and Kaku Sagary Nokoe, 2022. Parametric models that Explain the Dynamics of Suspected Reported Cries in Ghana. *Journal of Probability and Statistics* (in press)
4. Onsongo Winnie Mokeira, Vincent Odhiambo, Shaibu Osman, and Kaku Sagary Nokoe, 2022. A Model Based Approach to the Estimation of a Finite Population Error Variance in a Homoscedastic Setting. *International Journal of Mathematics and Mathematical Sciences* (in press)
5. Abukari Alhassan, Katara Salifu, Mhama Ishaque, Amakye Ebenezer and Kaku Sagary Nokoe, 2021. Groundwater Quality modelling in Upper Denkyira East Municipality of the Central Region in Ghana. *Int. J. Stat Appl Math* Vol 6(6):169-178.
6. Mkenda TB, Nokoe KS, and Karoki S., 2019. Statistical Update on the Implementation of HIV/AIDS Guidelines and Policies in Kilimanjaro Region–Tanzania. *Health Sci J* Vol.13(2):640.
7. Mkenda TB, Nokoe KS, and Karoki S., 2019. Estimating the Age at HIV Infection Retroactively in Limited Resource Settings: A Case Study of Tanzania. *American Journal of Theoretical and Applied Statistics* Vol 8(4), 2019: 125-135 doi:10.11648/j.ijep.20190804.11
8. Ankamah, Sylvia, Kaku Sagary Nokoe and Wahab Abdul Iddrisu, 2018. Modelling Trends of Climatic Variability and Malaria in Ghana using Vector Autoregression, *Malaria Research and Treatment*, vol. 2018, Article ID 6124321, 11 pages, 2018. [OPEN ACCESS journal] <https://doi.org/10.1155/2018/6124321/>.
9. Iddrisu,W.A., K.S. Nokoe, A. Luguterah and Eric O. Antwi, 2017. Generalized Additive Mixed Modelling of River Discharge in the Black Volta River. *Open Journal of Statistics*, 2017, 7, 621-632

10. Simon B. Boni, Costancia P. Rugumamu, Dan Gerling, K. Sagary Nokoe, James P. Legg, 2017. Interactions between cassava mosaic geminiviruses and the *Bemisia tabaci* whitefly vector. *J Econ Entomol.* 2017 Jun 1;110(3):884-892. doi: 10.1093/jee/tox064.
11. Alice Constance Mensah, Joel Yarney, Kaku Sagary Nokoe, Samuel Opoku, Joe Nat A Clegg-Lampsey, 2016. Survival Outcomes of Breast Cancer in Ghana: An Analysis of Clinicopathological Features, January 2016, *Open Access Library Journal* 03(01):1-11, DOI: 10.4236/oalib.1102145
12. Kabo-Bah, Chuks J. Diji, Kaku Nokoe, Yacob Mulugetta, Daniel Obeng-Ofori, Komlavi Akpoti, 2016. Multiyear Rainfall and Temperature Trends in the Volta River Basin and their Potential Impact on Hydropower Generation in Ghana. *Climate* -131977; doi:10.3390/cli404004 <http://www.mdpi.com/2225-1154/4/4/49/html> 12Oct2016
13. Iddrisu, W.A., K.S. Nokoe, F.B. Osei & E.O. Antwi, 2016. Spatial Bayesian Methods of Flow Forecasting in the Black Volta River. *European Journal of Scientific Research*, Vol. 137 (1):. 89-105.
14. Alhassan, Abdul Latif, Abukari Alhassan and Kaku Sagary Nokoe, 2016. Modelling the covariates of Typhoid patients at the Tamale Teaching Hospital using Generalised Linear models. *International Journal of Tropical Disease and Health (IJTDH)*, 20(1): 1-10
15. Alhassan A. and K. S. Nokoe, 2016. Modelling the Transitional Dynamics of Mycobacterium Tuberculosis Strain. *Journal of Medical & Biomedical Sciences* 5(2):13-23
16. Wahab Abdul Iddrisu, Kaku Sagary Nokoe, Alex Akwasi Opoku and Eric Ofori Antwi, 2016. Modelling the Trend of Flows with Respect to Rainfall Variability Using Vector Autoregression. *International Journal of Advanced Research* 4(9):125-140
17. Peter A. Kulakow, Moshood A. Bakare, Afolabi Agbona, Elizabeth Y. Parkes, Ismail Y. Rabbi, Esther Olaniyo, Ikpan S. Andrew, Peter O. Iluebbey, Lava Kumar, and K. Sagary Nokoe, 2016. Breeding value for cassava mosaic disease resistance analysed in a seedling nursery. *Abstract, First World Congress of Root and Tuber Crops, Nanning Guangxi, China 18-22 January 2016*
18. Boahen, Eric and Kaku Sagary Nokoe, 2016. A generalized and efficient robust algorithm for handling censored values in one parameter exponential distribution. *Mathematical Theory and Modeling*, ISSN 2224-5804 (Paper) ISSN 2225-0522 (Online) Vol.6, No.3, 2016

19. Alice Constance Mensah, Joel Yarney, Kaku Sagary Nokoe, Samuel Opoku, 2014. Risk Factors for Breast Cancer in a Pure African Society, Impact of Age, Reproductive History, Family History and Breast Feeding. *Cancer Research Journal*. Vol. 2(5):82-87 i: 10.11648/j.crj.20140205.11
20. Luguterah, A. and K. S. Nokoe, 2013. Analyzing child survival in Ghana, *International Journal of Health Research and Innovation*, Vol. 1(2): 43-55 [ISSN: 2051-5057 (print version), 2051-5065 (online)]
21. Luguterah, A. and K. S. Nokoe, 2013. Comparison of the significance of some fixed factors on multilevel child survival, *ESJ International Vol.9 (16)* <http://eujournal.org/index.php/esj> (June 2013)
22. Luguterah, A. and K. S. Nokoe, 2013. Pre-pregnancy Risk Factors for Intrauterine Fetal Mortality in Ghana, *American Journal of Public Health Research*, Vol. 1 (5) 124-128 [published online DOI:10.1269/ajphr-1-5-3 <http://www.sciepub.com/ajphr/content/1/5> June 17, 2013]
23. Ayanwale, Adeolu, Adekunle, Adekunle; Olarinde, Luke; Fatunbi, Oluwole; Nokoe, Sagary; Oladunni, Olufemi, 2013. Enhancing Smallholder Farmers Income and Food Security through Agricultural Research and Development in West Africa: Impact of the IAR4D in the KKM PLS, *African Development Review*, (in press)
24. Alhassan, Abukari, Nokoe, Kaku Sagary and Kwabena Kyei Aboagye , 2013. Modeling the containment of Mycobacterium Tuberculosis Strain, *European Scientific Journal*, Vol. 9(36): 443-453 (December 2013)
25. Nokoe, K Sagary, van Rijn, Fédes, Adekunle, Adewale A., Ayanwale, Adeolu B., Olarinde, Luke O.; and Kefasi Nyikahadzoi (2013), Similarities among IAR4D innovation platforms, *European Scientific Journal*, Vol. 9(36): 472-484 (December 2013)
26. Adekunle, A. A., Fatunbi, O., Ayanwale, A.A., Olarinde, L., Mango, N., Nyikahadzoi, K., Siziba, Oladunni, O., Nokoe, S., and J. Baidu-Forson, 2013. *Exploring the potential of integrated agricultural research for development in Southern Africa*, Forum for Agricultural Research in Africa (FARA) Publ. Accra, pp xx
27. Adekunle, A. A., Fatunbi, O., Ayanwale, A.A., Olarinde, S., Oladunni, O., Nokoe, S., Binan, J. N., Kamara, A. Y., Maman, K. N., Dangbegnon, C., and A. Emechebe, 2013. *Unlocking the potentials of agricultural research and development in the savanna of West Africa*, Forum for Agricultural Research in Africa (FARA) Publ. Accra, pp xx
28. Musunguzi, Enock, Maundu, P., Grum, M., and K. S. Nokoe, 2012. A systematic approach to food variety classification as a tool in dietary assessment: a case study of

- Kitui district. *African Journal of Food, Nutrition, Agriculture and Development*, Vol. 12(3): 6213-6228 [http://www.thefreelibrary.com/\_/print/PrintArticle.aspx?id=293949366 (May 1 2012)]
29. Mapemba, Lawrence, R. Pitoro, E. Musinguzi, K.S. Nokoe, E. Joaquim, T. Chilanga, H. Duarte, T. Chagomoka, M. Quinhentos, C. Malidadi and G. Soko , 2012. Rural Household Income Determinants: The Case of IAR4D Project Sites in Mozambique and Malawi. (in press: *African Journal of Agricultural and Resource Economics*).
  30. Abdou Tenkouano, Rodomiro Ortiz, and Sagary Nokoe , 2012, Repeatability and optimum trial configuration for field-testing of banana and plantain, *Scientia Horticulturae*, Volume 140, 1 June 2012, Pages 39-44 [http://www.sciencedirect.com/science/article/pii/S0304423812001562]
  31. Nokoe, Sagary K., 2012. Age--growth modelling, in *Encyclopedia of Environmetrics Second Edition*, A.-H. El-Shaarawi and W. Piegorisch (eds). John Wiley & Sons Ltd, Chichester, UK, pp. 29-39. DOI: 10.1002/9780470057339.vaa010.pub2.
  32. Nokoe, K. S., 2011. Farmer participatory Designs, in *International Encyclopedia of Statistical Science*, Miodrag Lovric (ed). Springer pp 508-514
  33. *Adebanji, A. and S. Nokoe, 2011. Mahalanobis Distance and Prior Probabilities, Lambert Academic Publishing, Saarbruchen, Germany*
  34. Atinuke Adebanji, Sagary Nokoe and Shola Adeyemi, 2010. Effects of Sample Size Ratio on the Performance of the Quadratic Discriminant Function; *J. Nat. Sci. Engr. Tech, 2010: 9 (2), 29-37*
  35. Adebanji, A., S. Nokoe and O. Iyaniwura, 2010. Error Rates Stability of the Homoscedastic Discriminant Function; *J. Nat. Sci. Engr. Tech, 2010: 9 (1): 6-13.*
  36. Jamal-deen Abdulai, Aminu Mohammed, Kaku Sagary Nokoe, and Ekanah Oyetunji, 2009. Route discovery in wireless mobile ad hoc networks with adjusted probabilistic flooding. ICAST 2009. Proceedings of 2nd International Conference on Adaptive Science Technology 2009: pp. 99 –109, jan. 2009.
  37. Nokoe, K. S., 2008. *The marriage of Mathematics and Biology: Life assessment for sustainable development*. Inaugural lecture, Ghana Academy of Arts and Sciences, 4<sup>th</sup> April 2008, 39pp
  38. Nokoe, K. S., 2007. Biometry in Farmer-Participatory On-Farm Forestry and Agricultural Trials. In: *Proceedings of 8<sup>th</sup> Sub-Saharan Africa Network of the*

*International Biometric Society Conference*, University of Natal, Pietermaritzburg, South Africa 7-11 July 2003.

39. Maziya-Dixon, B., Akinyele, I., Sanusi, R., Oguntona, T., Nokoe, S. and Harris, E., 2006, Vitamin A deficiency is prevalent in children less than 5 years of age in Nigeria, *Journal of Nutrition*, volume 136, number 8, pages 2255-2261, 2006.
40. Maziya-Dixon, B., Onyezili, F., Oguntona, E. B., Harris, E., Sanusi, R., Nokoe, S., Manyong, V., Almustafa, D. and Akinyele, I. 2006, Nigeria food consumption and nutrition survey 2001-2003 interviewer's manual, IITA, ISBN 978-131-313-7, 2006. 126 pages
41. Maziya-Dixon, B., Nokoe, S., Manyong, V., Akinyele, I., Oguntona, T. and Sanusi, R., 2006. *Design and Operation: Nigeria food consumption and nutrition survey*, 2006. IITA
42. Maziya-Dixon, B., Oguntona, E.B., Harris, E., Nokoe, S., Manyong, V., Akinyele, I. O., and R. A. Sanusi. 2006. *Food Instruction Booklet* ISBN 978 131 277 7. Nigeria Food Consumption and Nutrition Survey 2001-2003. Ibadan IITA; 122 pages.
43. Maziya-Dixon, B., Nokoe, S., Manyong, V., Harris, E., Akinyele, I. O., Oguntona, EB and R. A. Sanusi, 2006. *Report on Survey Design and Operation*. ISBN 978 131 314 5. Nigeria Food Consumption and Nutrition Survey 2001-2003. Ibadan IITA; 120 pages
44. Maziya-Dixon, B., Oguntona, T., Sanusi, R., Akinyele, I., Nokoe, S. and Harris, E., 2006. Iodine status of children under-5, their mothers, and pregnant women in Nigeria by agroecological zone and urbanization, in: *Public Health Nutrition*, 2006.
45. Maziya-Dixon, B., Tunde E. Oguntona, Rasaki A. Sanusi, K. Sagary Nokoe, Ellen W. Harris and I O Akinleye, 2006. Zinc deficiency is prevalent in children less than 5 years of age and their mothers in Nigeria, in: *International Journal of Epidemiology*, 2006.
46. Asiwe, J. A. N., Nokoe, S., Jackai, L. E. N. and Ewete, F. K., 2005. Does varying cowpea spacing provide better protection against cowpea pests? *Crop Protection* 24: 465-471
47. Williams, O., Nokoe, S. K., and Maziya-Dixon, B., 2005. Seeking Homogeneity in Statistical Variables using Cluster Analysis. *Publications of the ICMCS*, Volume 2 (2005)
48. Maziya-Dixon, B., Harris, E., Nokoe, S., Akinyele, I., Sanusi, R. and Oguntona, T., 2005. Evaluation of zinc status in children under-5 in Nigeria by agroecological zone and urbanization, *South African Journal of Clinical Nutrition*, volume 49, number S1,

pages 153, 2005.

49. Kaburise, J. B. K., Nokoe, K. S., and Kpikpi, W. M., 2005. Bridging Programme in mathematics and the sciences: towards gender equity. In: *Proceedings of the ANSTI Conference*, Accra 15-17 Nov 2005.
50. Adebajji Atinuke and Sagary Nokoe, 2004. Malnutrition in Nigerian Children (0-5years); Classification and Distribution (IBC 2004, Cairns (Australia) Edited conference proceedings. [http://www.ozaccon.com.au/cairns2004/contsess\\_fri.html](http://www.ozaccon.com.au/cairns2004/contsess_fri.html)
51. Adebajji, A. O. and Nokoe, K. S. 2004. Evaluating the Quadratic Classifier, *Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics*, 1<sup>st</sup>-7<sup>th</sup> November 2003, Cotonou (Republic of Benin), eds. J Govaerts, M. N. Hounkonnou and A. Z. Msezane (World Scientific, Singapore, 2004), pp. 369-374. Website [http://e proceedings.worldscinet.com/9789812702487/9789812702487\\_0020.html](http://e proceedings.worldscinet.com/9789812702487/9789812702487_0020.html)
52. Maziya-Dixon, B., Akinyele, I., Sanusi, R., Oguntona, E., Nokoe, S. and Harris, E., 2004. Vitamin A status of children under-5 in Nigeria: results of the Nigeria Food Consumption and Nutrition Survey, in: *Book of Abstracts 22nd IVACG Meeting: Vitamin A and the common agenda for micronutrients*, 15-17 November 2004, Lima, Peru, 2004.
53. Maziya-Dixon, B., Akinyele, I. O., Oguntona, E. B., Nokoe, S., Sanusi, R. A. and E. Harris, 2004. Nigeria Food Consumption and Nutrition Survey 2001-2003: Summary. IITA, 67p.
54. Dauda, T. O., Ojo, L. O., and Nokoe, KS, 2004. Unexplained relationships of height-diameter of three species in a tropical forest, *Global Nest: the International Journal*, 6(3): 200-208
55. Nokoe, K. S., 2004. Biomathematical modelling of stand growth: concepts, challenges or missing links. *International Journal of Management & Systems (IJOMAS)*, 21(3): 225-242
56. Tchuenche, J. M. and Nokoe, K. S., 2004. A mathematical model for the control of SARS epidemic. In: *Importance of Mathematical Modelling of Biological Processes* [Luboobi, L. S., Mugisha, J. Y. T., and Kasozi, J. (eds.)], Makerere University Press, pp69-77
57. Dauda, T. O., Ojo, L. O., and Nokoe, KS, 2003. Height-diameter models for some species in a tropical forest, *J. Trop. For. Res.* 19(1): 200-219



58. Fregene, B. T., Nokoe, K. S., and A.E. Falaye, 2003. Canonical Analysis of the Role of Fishing Inputs on Poverty Alleviation Among Marine Fisher Folks in Lagos State, Nigeria, Biometry in Poverty Alleviation Programmes, *Proceedings of the 8th Scientific Conference of the Sub-Saharan Africa Network (SUSAN) of the International Biometric Society (IBS)* held at the University of KwaZulu-Natal Pietermaritzburg South Africa, 7-11 July 2003 Eds: P.M. Njuho and H.G. Mwambi
59. Gold, C. S., Okech, S. H. O., and Nokoe, S., 2002. Evaluation of pseudostem trapping as a control measure against banana weevil, *Cosmopolites sordidus* (Germar) in Uganda. *Bulletin of Entomological Research*, volume 92, number 1, pages 35-44, ISSN 0007-4853, 2002.
60. Tarawali, S., Singh, B., Gupta, S., Tabo, R., Harris, F., Nokoe, S., Fernandez-Rivera, S., Bationo, A., Manyong, V., Makinde, K. and Odion, E., 2002. Cowpea as a key factor for a new approach to integrated crop-livestock systems research in the dry savannas of West Africa, pages 233-251, 2002.
61. Tarawali, S.A., Smith, J.W., Hiernaux, P., Singh, B.B., Gupta, S.C., Tabo, R., Harris, F., Nokoe, S., Fernandez-Rivera, S. And Batiano, A., 2001. INTEGRATED Natural Resource Management: putting Livestock in the Picture. Proceedings of Integrated Natural Resource Meeting, 20-25 August 2000, Penang, Australia
62. Nokoe, S., 2001. Information technology and applications in horticulture *In: Proceedings of the 19<sup>th</sup> Annual Conference of Horticultural Society of Nigeria, Nsukka, 28-31 May 2001* p xx-xx
63. Nokoe, S. and Akintunde, N. A., 2001. Managing Biodiversity: An illustration of a Genealogy Management System, *Proceedings of the Nigerian Biodiversity Update*, UNAAB Abeokuta 15-18 October, 2001
64. Nokoe, S., 2001. Age/growth Modeling. In: Abdel El-Shaarawi & Walt Piegorsch (eds.) *Encyclopedia of Environmetrics Vol. 1*, John Wiley, UK pp.32-41
65. Jackai, L. E. N., Nokoe, S., Tayo, B. O. and Koono, P. 2001 Koono. Inferences on pod wall and seed defenses against the brown cowpea coreid bug, *Clavigralla tomentosicollis* Stal (Hemiptera: Coreidae) in wild and cultivated Vigna species. *Journal of Applied Entomology* 125: 277-286.
66. Nokoe, S. and Oranga, H., 2001. Assessing impact of pasture nutrient quality on resistance to ticks of Zebu grazing calves. *Asset Series A*, Vol. 1(2): 1-8
67. Kadiata, B. D. and S. Nokoe, 2000. Clustering shrub and tree legumes grown in acid and non-acid soil conditions using rank performance data. *Agroforestry Systems* 48: 95-105.

68. Dahal, G., J. d'A. Hughes, F. Gauhl, C. Pasberg-Gauhl and K.S. Nokoe, 2000. Sympto-matology and development of banana streak, a disease caused by banana streak badnavirus, under natural conditions in Ibadan, Nigeria. *Acta Horticulturae*, 540: 361-375.
69. Nokoe, S. and Zewdie, S., 2000. A Procedure for Allocating Heterogeneous Units to Treatment Groups. *Discovery and Innovation*, 12 Number 3(4): 179-198
70. Nokoe, S., 2000. Biometric issues in agronomy: further on-station and on-farm designs and analyses. In: Akoroda, M O (ed.) *Agronomy in Nigeria*, Department of Agronomy, University of Ibadan, Nigeria pp.35-42.
71. Nokoe, S. (Ed.), 2000. *Biometry and Quality of Life. SUSAN-IBS, Nairobi, Kenya 304pp*
72. Nokoe, S., 2000. Approches de génération et d'analyse des données collectées en milieu réel. In: 'Mieux collecter l'information et mieux l'analyser: cas de l'experimentation agricole'. Les actes du séminaire, Cotonou, 1-2 December 1999, pp.85-103.
73. Odulaja, A., Ajayi, O. O., and Nokoe, S. 2000. Conceptual models for technology adoption by small-scale farmers. In: Nokoe, S. (Ed.) *Biometry and Quality of Life. Proceedings of SUSAN-IBS meeting at IITA, Ibadan 23-27 August 1999*. SUSAN-IBS, Nairobi, Kenya pp. 228-234.
74. Nokoe, S., Ojurongbe, T., and Bamiduro, T. A., 2000. Opportunities and issues for biometry in a rapidly changing environment. In: Nokoe, S. (Ed.) *Biometry and Quality of Life. Proceedings of SUSAN-IBS meeting at IITA, Ibadan 23-27 August 1999*. SUSAN-IBS, Nairobi, pp 11-19
75. Tarawali, S.A., Singh, B. B., Gupta, S. C., Tabo, R., Harris, F., Nokoe, S., Fernandez-Rivera, S., Bationo, A., Manyong, V. M., Makinde, K., and Odion, E. C., 2001. Cowpea as a key factor for a new approach to integrated crop-livestock systems research in the dry savannas of West Africa. In: *Proceedings of World Cowpea Research Conference III held at IITA, Ibadan, Nigeria, 4-7 September 2000*, p. 233-251.
76. Van de Wouw, Mark, Hanson, Jean, and Sagary Nokoe, 1999. Observation strategies for morphological characterisation of forages. *Genetic Resources and Crop Evolution*, 46: 63-71.
77. Nokoe, S., 1999. On-farm trials: surgical or preventive approach? *J of Tropical Forest Resources* 15(2): 93-103
78. Ajayi, O. O., Odulaja, A., Nokoe, S., and T. A. Bamiduro, 1999. Gender-specific factors affecting agricultural output of small-scale farmers in sub-Sahara Africa: western

- Kenya, a case study. *Journal of Tropical Forest Resources* 15(2): 130-136
79. Singh, B., Tarawali, S., Gupta, S., Tabo, R., Nokoe, S. and Odion, C., 1999. Farmer participatory evaluation of improved strip intercropping systems in northern Nigeria, *Agronomy Abstracts, Annual Meeting*, 1999 pp. 37.
  80. Rey, B., Agyemang, K., Thorpe, W., Mullins, G., Diedhiou, M., Nokoe, S. and B. M. Shapiro, 1999. *A research methodology for characterising dairy production systems*, Market-oriented Smallholder Dairy Research Working Document No. 4., ILRI-Nairobi. 91p
  81. Carsky, R., Nokoe, S., Lagoke, S. T. O. and S. K. Kim, 1998. Maize yield determinants in farmer-managed trials in the Nigerian Northern Guinea Savanna. *Experimental Agric.*,34:407-422.
  82. Nokoe, Sagary and Rodomiro Ortiz, 1998. Optimum plot size for banana trials. *HortScience*, 38: 130-132.
  83. Nokoe, S. and Victor M. Manyong, 1998. Concept of benchmark area, and implications for on-farm farmer participatory research, In: *Proceedings of the XIXth International Biometrics Conference, Invited Paper* pp.11-16. Cape Town.
  84. Nokoe, Sagary, 1997. Improving training in biometry for agricultural scientists In: *Strengthening Biometry and Statistics in Agricultural Research*, pp78-90, CTA, Wageningen.
  85. Odulaja A. and S. Nokoe, 1997. Conversion of yield data from experimental plot to larger plot units. *Discovery and Innovation*, 9: 137-141.
  86. Nokoe, Sagary and John Omiti, 1997. Evaluation of technology adoption in farmers' cropland using adaptive sampling methodology. *Jour. of Tropical Forest Resources*, 13:1-8.
  87. Heering, J.H., S. Nokoe and Jemal Mohammed, 1996. The classification of a *Sesbania sesban* (ssp. *sesban*) collection. II. Agronomic attributes and their relation to biomass estimation. *Tropical Grasslands*, 30: 215-222.
  88. Heering, J.H., S. Nokoe and Jemal Mohammed, 1996. The classification of a *Sesbania sesban* (ssp. *Sesban*) collection. I. Morphological attributes and their taxonomic significance. *Tropical Grasslands*, 30: 206-214.
  89. Omiti, J., Ehui, S., Parton, K., and S. Nokoe, 1996. Some effects of institutional reform on mechanisms of land, labour and animal traction use in the Ethiopian Highlands. In: *Agricultural Competitiveness, Market Forces, and Policy Choice: Eastern and Southern African Perspectives and Case Studies*, pp. 305-315, Lit

Verlag, Munster-Hamburg.

90. Dakouo, D., S. Nacro, R. Post, Y. Traore, S. Nokoe and D. M. Munyinyi, 1995. Evaluating an insect pest management system in an irrigated rice environment. *Insect Sci. Applic.* 16: 93-101.
91. Zerhini, E., T. Gameda, A.G. Wold and S. Nokoe, 1995. Effect of draught work on performance and metabolism of crossbred cows. 2. Effect of work on roughage intake, digestion, digesta kinetics and plasma metabolites. *Animal Science*, 60: 369-378.
92. Odulaja, A. and S. Nokoe, 1995. A serial-correlational analysis of experimental field scores. *Discovery & Innovation* 7(1): 6-10.
93. Nokoe, Sagary, 1995. Alternatives to simple averaging of scores, In: Randal J. H. (ed.), *Proceedings of the fourth meeting of the East, Central and Southern African Network of the International Biometric Society*, pp118-131, Stellenbosch, South Africa 5-7 December 1995.
94. Nokoe, S., 1993. Quantitative assessment of growth in the tropical rainforests In: *Statistics for the Environment* (Eds. Vic Barnett & K. Feridun Turkman), John Wiley, England, Chapter 18
95. Nokoe, S., 1993. Adaptive sampling strategies for impact assessment or technology adoption evaluation, In: *Biometry for sustainable food production* (Eds: L S Luboobi, S Ssewanyana and F. Nabugoomu), pp. 40-48, Makerere University
96. Nokoe, S., and C. Agbavwe, 1993. Determining the optimum number of strata required for sampling a normally distributed forest population. *Discovery & Innovation*, 5(4): 301-305.
97. Odulaja, A. and S. Nokoe, 1993. A maximin - minimax approach for classifying varieties into resistance groups based on yield loss. *International Jour. of Pest Management*, 39 (1): 64-66.
98. Nokoe, S., D.K. Punyua, P.B. Capstick and A.A. Latif, 1993. Derivation of an index for assessing the resistance of zebu cattle to *R. appendiculatus* Newmann (Acarina: Ixodidae). *Insect Sci. & Its Applic.*, 14 (1): 15-19.
99. Nokoe, S. and Adedapo Odulaja, 1993. Role of Biomathematics in pest & vector management *Proceedings of the 1<sup>st</sup> Conference of the Kenya Mathematical Society*, 19 - 21 August 1992 Nairobi, Kenya (Eds. W. Ogana and J.M. Mberia), p1-3
100. Odulaja, Adedapo and S. Nokoe, 1993. Mathematical models for the analysis of uniformity trial data, Edited *Proceedings of the 1<sup>st</sup> Conference of the Kenya*

- Mathematical Society*, 19 - 21 August, 1992 Nairobi, Kenya (Eds. W. Ogana and J.M. Mberia) pp4-7
101. Lwande W., A. Hassanali, P.G. Mcdonel, L. Moreka, S. Nokoe and P.G. Waterman 1992. Constituents of *Commiphora rostrata* and some of their analogues on maize weevil, *Sitophilus zeamais*, repellants. *Insect Science & Its Application*, 13(5): 678-683.
  102. Kaddu, J.B., M.J. Mutinga, S. Nokoe and R.M. Musyoki, 1992. Phytophagy of *Sergentomyia ingrami* II. Feeding performance on selected indigenous and ezotic plants. *Insect Science & Its Application*, 13(6): 807-811.
  103. Nokoe, S., D.K. Punyua, P.B. Capstick, and A.A. Latif, 1992. Non-tick stock specific index for assessing resistance of zebu cattle to *Rhipicephalus appendiculatus* Newman (acarina: Ixodidae). *Insect Science and Its Application*, 13(5): 685-690.
  104. Nokoe, S., H. Meena, D. Munyinyi, D. Punyua and O.O. Okello, 1992. A computer-simulated model for the biology and control of *Rhipicephalus appendiculatus* Neumann. *Insect Science and its Application*, 13(1): 69-77.
  105. Kaddu, J.B., M.J. Mutinga, S. Nokoe and R.M. Musyoki, 1992. Phytophagy of *Sergentomyia ingrami* I. Feeding rates. *Insect Science and Its Application*, 3(5): 731-735.
  106. Nokoe, S., 1992. Statistical and experimental design considerations in alley farming. In: *The AFNETA alley farming training manual - Vol. 1* (Eds: Tripathi B.R & Psychas P.J), Techn. Paper 7, 1-34. ILCA/IITA
  107. Nokoe, S., 1992. Examples of experimental designs for alley farming trials. In: *The AFNETA alley farming training manual - Vol. 2* (Eds: Tripathi B.R & Psychas P.J), Techn. Paper 8, 1-23, ILCA/IITA
  108. Nokoe, S. 1992. Analyses of multivariable trials. In: Edited *Proceedings of the 2<sup>nd</sup> scientific meeting of Biometricians in Eastern and Central Africa*, 23 - 28 November, 1991, Harare (R. Kempton, R. Coe and J. Canhao - Eds.), p73-85.
  109. Meena H. and S. Nokoe, 1992. ICIPE's involvement in electronic networking and CGNET. *Proceedings of joint American Association for the Advancement of Science & African Academy of Sciences workshop on "Science and Technology Communication Networks in Africa*, 27 - 29 August 1992, Nairobi, Kenya, pp.112-118.
  110. Nokoe, S., 1992. Research protocol for effective biometric advice, *Edited proceedings of the 2<sup>nd</sup> scientific meeting of Biometricians in Eastern and Central Africa*, 23 - 28 November 1991, Harare (R. Kempton, R. Coe and J. Canhao - Eds.), pp.17-23.

111. Nokoe, S., 1992. Status of Statistics and Computing in Western and Eastern Africa, *Proceedings of Invited Papers, XVI<sup>th</sup> International Biometric Conference*, 7 - 11 December 1992, Hamilton, New Zealand p123-136.
112. Punyua, D.K., A.A. Latif, S. Nokoe and P.B. Capstick, 1991. Tick (Acari: Ixodidae). Infestations on zebu cattle in Western Kenya: Seasonal Dynamics of four species of ticks on traditionally managed cattle. *Journal of Medical Entomology*, 28(5): 630-636.
113. Adegbehin, J. O., Nwaigbo, L. C., and S. Nokoe, 1991. Resources of the mangrove with special reference to the coastal areas of Nigeria: Their utilization and management perspectives. *Discovery and Innovation*, 3(2): 37-45.
114. Nokoe, S., 1991. Modelling for the management and control of ticks: Special considerations and ICIPE's approach. *Insect Science and Its Application*, 13 (4): 545-549.
115. Nokoe, S., 1991. Biomathematical Applications in the ICIPE. *Biometric Bulletin*, 8(2): 20- 22
116. de Castro J., P.B. Capstick, S. Nokoe, H. Kiara, F. Rikanya, R. Slade, O.O. Okello, M. Malonza and L. Bennun, 1991. Towards the selection of cattle for tick resistance in Africa. *Experimental & Applied Acarology*, 12(3/4): 219-227.
117. Munyinyi, D. and S. Nokoe, 1991. Estimating probability distribution function for female ticks on unimproved zebu cattle. In: *Biometry for Development* (Patel MS & Nokoe S, Eds), pp93-98
118. Latif, A.A., S. Nokoe, D.K. Punyua and P.B. Capstick, 1991 Tick infestation on zebu cattle in Western Kenya: Quantitative assessment of host resistance. *J. Med. Entomol.* 28(1): 122-126.
119. Latif, A.A., D.K. Punyua, S. Nokoe and P.B. Capstick, 1991. Tick infestation on zebu cattle in Western Kenya: Individual host variation. *J. Med. Entomol.* 28(1): 114-121.
120. Torto, B., A. Hassanali, K.N. Saxena, and S. Nokoe, 1991. Feeding responses of *Chilo partellus* larvae to sorghum plant phenolics and their analogues. *J. Chemical Ecology*, 17(1): 67-78.
121. Adegbehin, J.O., S. Nokoe and J.A. Okojie, 1991. The versatility of the Gompertz and Logistic functions as growth models in Forestry. *Discovery and Innovation*, 3(1): 53-56
122. Latif, A.A., D.K. Punyua, P.B. Capstick, S. Nokoe, A.R. Walker and J.D. Fletcher, 1991. Histopathology of attachment sites of *Amblyomma variegatum* and

- Rhipicephalus appendiculatus* on zebu cattle of varying resistance to ticks. *Vet Parasitology*, 38: 205-213.
123. Patel, M.S. and S. Nokoe (Eds.), 1991. *Biometry for Development*. ICIPE Science Press, Nairobi, 198pp.
  124. Sagary Nokoe, K. 1991. *Notes on Statistical Applications in Forest Research, Report No FAO-FO-BHU/85/016, Fiche No: 325739, Integrated Forest Management and Conservation, Thimphu (Bhutan), Working Document 19, 1991, 140 p.*
  125. Sagary Nokoe, K. 1991. *Guide to Computer Data Inputting and Statistical Analysis, Report No FAO-FO-BHU/85/016, Fiche No: 325741, Integrated Forest Management and Conservation, Thimphu (Bhutan), Working Document 20, 1991, 49 p.*
  126. Nokoe, S., 1989. Relevance of basic experimental design principles and assumptions to African agriculture. *Edited proceedings of the 1st scientific conference of the African Statistical Association, Abuja Oct 29-Nov 3, 1989. Chapter 23, pp. 362-367.*
  127. Latif, A.A., J.N. Maina, T.S. Dhadialla and S. Nokoe, 1990. Histological reactions to bites of *Amblyomma variegatum* and *Rhipicephalus appendiculatus* fed simultaneously on naive or sensitized rabbits. *Journal of Medical Entomology*, 27(3): 316- 323.
  128. Nokoe, S. and J.O. Olufowote, 1990. Determining the number of locations and repetitions in rice yield trials. *Discovery and Innovation* 2(4), 67-72.
  129. Hassanali, A., W. Lwande, N. Ole-Sitayo, L. Moreka, S. Nokoe, A. Chapya, 1990. Weevil repellent constituents of *Ocimum suave*. *Discovery and Innovation*, 2(2): 91-95.
  130. Nokoe, S. and D. Munyinyi, 1989. Interface with Social Science Research Unit: Experience with analysis of Kendu Bay and Oyugis data. In: *Proceedings of Social Science Workshop, ICIPE, Nairobi, 6 May 1989* (Ed.: K.K. Prah) p63-68.
  131. Bada, S.O., S. Nokoe and J.A. Okojie, 1989. Population dynamics of selected tree species in a strict natural reserve in the moist tropical forest zone. *Discovery and Innovation*, 1(3) 71-76
  132. Nokoe, S., Latif, A.A., Capstick, P. B., and D. K. Punyua, 1988. Quantifying the level of resistance in cattle to *Rhipicephalus appendiculatus* (acarina: ixodidae) using a multivariate analytical procedure. In: *Proceedings of International Workshop on Biomathematics*, (Eds: Sowunmi, C. O. A., Olaofe, O. G., Vega-Catalan, F. J. and L. Ugochuckwu Uko), p87-94.
  133. Adegbehin, J.O., S. Nokoe and J.A. Okojie, 1988. Trials and Growth of *Pinus caribaea* in Northern Nigeria. *Pakistan Journal of Forestry*, Jan. 1988, p.1-13

134. Adegbehin, J.O., J.A Okojie and S. Nokoe, 1988. Growth of *Eucalyptus teriticornis* and *Pinus caribaea* at different sites in Northern Nigeria *Forest Ecology and Management*, 23:261-272
135. Nokoe, S., 1988. Modelling approaches to vectors. *Kenya Veterinarian*, 12(2): 21-22
136. Nokoe, S. and L.M. Rogo, 1988. A Discriminant Function for the Short- and Long-setaed forms of the *Mononychellus* species complex. *Insect Science and Its Applications*, 9(4): 429-432.
137. Rogo, L.M., Oloo, G.W., S. Nokoe and H. Magalit, 1988. A study of the *Mononychellus* (Acari:Tetranychidae) species complex from selected cassava growing areas of Africa using principal component analysis. *Insect Science and Its Applications*, 9(5): 593-599.
138. Nokoe, S. (Ed.), 1986. *Ecological Limits of Abuse*. Ecological Society of Nigeria, Port Harcourt, Nigeria, ECOSON, Nigeria
139. Nokoe, S., 1986. Further considerations of the Markov model: a challenge to quantitative ecologists and bio-mathematicians *Edited Proceedings of the 1985 Annual Conference of the Ecological Society of Nigeria*, 3-5th May 1985 pp. 248-254.
140. Nokoe, S., Jolayemi J., Ayanwale, A. and C. Onyeagba, 1986. Conversion tables for mini-plot experimental data for rice and maize populations into hectare units. *Nigerian Agricultural Journal*, 21: 123-127.
141. Okojie, J. and S. Nokoe, 1985. Stand development of species of varying tolerance. *Ecological modelling*, 30: 71-82.
142. Ola-Adams, B.A., S. Nokoe and A.O. Adeola, 1985. An exponential model for diameter movement in Gambari Forest Reserve, South Western Nigeria. *Nigeria J. of Forestry* 15:43-45.
143. Adegbehin, J., Okojie, J.A., S. Nokoe and J.E. Omijeh, 1985. A Preliminary growth study of *Pinus caribaea* in the Northern and Derived Savanna zones of Nigeria. *Edited Proceedings of the 1985 Annual Conference of Forestry Association*, Gongola, pp.125-134.
144. Nokoe, S. and J. Okojie, 1984. Relationships between stand attributes and Weibull parameters. *Ecological Modelling*, 24: 231-240.
145. Nokoe, S., 1984. Volume Tables for *Cedrela odorata*, L. *Commonwealth Forestry Review*, 63(1): 35-40.
146. Adegbehin, J.O., Okojie, J.A. and S. Nokoe, 1984. Appraisal of Growth of *Pinus caribaea* in Northern Nigeria. *Nigerian Journal of Forestry*, 14(1 & 2): 29-33.



147. Nokoe, S. and A. Kozak, 1981. Improved efficiency in weight scaling operations through post-stratification techniques. *Northwest Science*, 55(4): 263-268.
148. Nokoe, S., 1980. Nonlinear models fitted to stand volume – age data compare favourably with British Columbia Forest Service hand-drawn volume – age curves. *Canadian Journal Forest Research*, 10 (3): 304-307.
149. Nokoe, S. and A Kozak, 1979. A sampling procedure for the scaling of logs by weight, *Obeche*, 14/15: 9-14.
150. Nokoe, S. and A. Kozak, 1979. Obtaining a composite volume – age function with the Gompertz model, *Northwest Science*, 53(1): 12-17.
151. Nokoe, S. and J. Okojie, 1979. A data-base study on the validity of a joint *Gmelina* volume equation for Omo and Awi plantation sites in Nigeria. *Nigerian Jour of Science*, 13(1&2): 79-85
152. Nokoe, S., 1978. Demonstrating the flexibility of the Gompertz function as a yield model using mature species data. *Commonwealth Forestry Review*, 57(1): 35-41.
153. Okojie, J. and S. Nokoe, 1976. Choosing appropriate volume equations for *Gmelina arborea* Linn. for two plantation sites in Nigeria. *Nigerian Journal of Forestry*, 6(1 & 2): 67-69.