

CURRICULUM VITAE - Kaku Sagary Nokoe, FGA

Professor K S Nokoe, a Fellow of the Ghana Academy of Arts and Sciences, obtained his PhD from the University of British Columbia, and has over 30 years of teaching and research experience. He was Head of Department of Mathematical Sciences at the University of Agriculture in Nigeria (2002|2004), and the acting Vice-Chancellor of the University for Development Studies in Ghana (2007|2010). He had also served as biometrician in national and international research centres, published extensively in several peer-reviewed journals and supervised over 20 PhD and MSc students in Statistics, Statistical Ecology and Surveys, Quantitative Entomology, Mensuration, Biometrics and Statistical Computing among others. He is an Elected Member of the International Statistical Institute, Member of the International Association of Statistical Computing, Member of the International Biometric Society (IBS) and Founder of Sub-Saharan Africa Network (SUSAN) of IBS. 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". Professor Nokoe has been involved in the design, implementation and analysis of large scale surveys and multi-location trials in Africa.

1. PERSONAL PARTICULARS

Name: Kaku Sagary NOKOE
Title: Professor
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Navrongo, Ghana [Tel: (+233)241580800 +234209196871]
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2. ACADEMIC/PROFESSIONAL QUALIFICATIONS/DISTINCTIONS

B.Sc. Honours, 2nd Class Upper, Ibadan 1972
M.F. Biometrics/Mensuration, British Columbia, November 1974
Ph.D Biometrics, British Columbia, November 1976

Elected Member International Statistical Institute (February 2002)
Fellowship (FGA) Ghana Academy of Arts and Sciences (13 July, 2006)
Rob Kempton Award (1st recipient) International Biometric Society (22 July, 2006)
Distinguished Foresters Award Forestry Association of Nigeria, 24 November, 2006

Dissertations/Theses: **BSc:** Specific Gravity Variation in *Gmelina arborea* (*P R O Kio*)
MF: Nonlinear Models for Volume-age Curves (*A. Kozak*)
PhD: Minimum-Variance Sampling Schemes for the Scaling of logs by weight (*A. Kozak and S W Nash* –supervisors)

3. APPOINTMENT/EMPLOYMENT HISTORY (1984-Date)

MANAGEMENT POSITIONS (1987 – 2010)

Vice-Chancellor (April 2007 to May 2010) Overall responsibility for financial, administrative, academic affairs; staff population 1100, student population 15,010

Pro Vice-Chancellor (Dec 2005 to Nov 2007) In charge of academic programs and directorate of academic planning

Coordinator (2004 – 2007) University's Teaching and Learning Innovative Fund (TALIF) – World Bank Assisted Project; co-funded by Government of Ghana.

Head of Department (2001-2004) Mathematical Science, University of Agriculture, Abeokuta Nigeria

Head of Biometrics (1987 – 2002) International Institute of Tropical Agriculture, Nigeria
International Livestock Centre for Africa, Ethiopia
International Centre of Insect Physiology & Ecology, Kenya

FULL-TIME APPOINTMENT (1972 – 2010)

31 October 2003 – 31st August 2010 Professor, Faculty of Mathematical Sciences, University for Development Studies (UDS) Navrongo Campus, PO Box 24, Navrongo Ghana

24 October 2001 – 31 Dec 2003 Professor of Biomathematics, Department of Mathematical Sciences, University of Agriculture (UNAAB), PMB 2240 Abeokuta, Ogun State, Nigeria

15 Oct. 1994 – April 2002 Biometrician and Head of Biometrics, International Institute of Tropical Agriculture (IITA), PMB 5320, Ibadan, Nigeria [Terminal leave from Nov 2001 – 30 April 2002]

Feb. 1993 – 14 Oct. 1994 Head, Computing & Biometrics, International Livestock Centre for Africa, Box 5689, Addis Abeba, Ethiopia

Feb. 1987 - Feb. 1993 Head, Biomathematics Unit & Senior Scientist/Modeller, Livestock Pests Research Program, International Centre of Insect Physiology and Ecology (ICIPE), P O Box 30772, Nairobi, Kenya

June 1984 - Feb. 1987 Senior Lecturer in Biometrics, Rivers State University of Science and Technology, Port Harcourt, Nigeria

March 1981 - June 1984 Biometrician, Biometrics Division, Forestry Research Institute of Nigeria, P M B 5054, Ibadan, Nigeria

October 1977 - Feb. 1981 Biometrician and Head of Statistics/Records Division, National Cereals Research Institute, Ibadan, Nigeria

October 1976 - Sept. 1977 Lecturer in Forest Biometrics, Department of Forest Resources Management, University of Ibadan, Ibadan

July 1972 - Sept. 1973 Assistant Research Officer, Forest Products Research Institute (FORIG), KNUST P O Box 63 Kumasi

PART-TIME and VISITING APPOINTMENTS

Visiting Professor, AAU-Staff Exchange, University of Agriculture, Abeokuta Nigeria (July 2009, December 2009/January 2010)

Professor, Regional MSc Biometry Programme, University of Nairobi, Kenya 2004-2005

Professor, MSc Applied Statistics/Biostatistics Programme, Center for Statistics, Limburgs Universitair Centrum (University of Hasselt) Diepenbeek, Belgium, Belgium April-June 2003; April-June 2005

Visiting Professor, School of Mathematics, Statistics & Information Technology, University of Natal (now

Kwazulu-Natal) Pietermaritzburg South Africa February-March, 2002

Consultant Forest Research Statistician, Bhutan, Asia (FAO/UNDP/RGOB Project BHU/85/016), March 1991 – October 1991

***Part-time Lecturer**, University of Ibadan, Ibadan (Departments of Forest Resources and Statistics; BSc-PhD programmes), 1977-1984; Ambrose Ali University (Department of Forestry & Fisheries – BSc programme, Ekpoma (1983 – 1984)*

4. CONSULTANCIES (TRAINING & DATA ANALYSIS): 2001-date

- Resource person: Statistics with applications in veterinary research, ITC - International Trypanotolerance Centre, Banjul, The Gambia 23-28 April, 2001.
- Consultant Biometrician, Nigeria Food Consumption & Nutrition Survey (FCNS 2001), Project
- Funded by USAID/USDA/UNICEF/FGN/IITA, 2001-2003; Report <http://www.iita.org>
- Course Director & Resource person: Experimental Data Analysis with SAS, National Root Crops Research Institute, 19 Feb - 2 March 2001, Umudike Nigeria
- IITA Graduate Research Fellows course in Statistical Computing – 2001/2002
- Director & Resource person: CTA-CSIR Biometrics course for researchers, CSIR-INSTI 8-20/7/2002
- Course Director & Resource person: CTA Biometrics Training course for Mozambican National Scientists, Maputo 18-29 November 2002
- Course Director & Resource person: ADB-IRAD sponsored course on ‘Statistical Analysis with SAS’ for Cameroon Researchers, 17 – 27 February 2003.
- Consultant Data Analyst: EPHTA socio-economic data analysis, IITA Humid Forest Centre, Nkolbisson, Yaoundé Cameroon February 2003
- Course Director & Resource person: CTA sponsored Regional Course on ‘Scientific Data Management’, University of Agriculture, Abeokuta 26 July – August 2003
- Course Director & Resource person: CTA sponsored Regional Course on ‘Scientific Data Management II’, University of Agriculture, Abeokuta 1 March – 12 March 2004
- Resource person: CTA sponsored Caribbean and South America Regional Course on ‘Scientific Data Management’, St Kitts, 13-18 September 2004
- Course Director & Resource person: CTA sponsored Regional Course on ‘Scientific Data Management III’, University of Agriculture, Abeokuta 9 March – 19 March 2005
- **Consultant to Bolgatanga Polytechnic on TALIF Proposal Improvement**, National Council for Tertiary Education (NCTE), Accra Ghana [August, 2005]
- Course Director & Resource person: CTA sponsored Regional Course on ‘Scientific Data Management IV’, University of Agriculture, Abeokuta 20 March – 31 March 2006
- Course Director & Resource person: CTA sponsored Regional Course on ‘Scientific Data Management, INSTI-CSIR, Accra Ghana 12 March – 24 March 2007
- Course Director & Resource person: CTA sponsored Regional Course on ‘Scientific Data Management’, Port Moresby, Papua New Guinea, July 2008
- Course Director & Resource person: CTA sponsored Regional Course on ‘Scientific Data Management’, Suva, Fiji Islands, November 2008
- Course Director & Resource person: CTA sponsored Regional Course on ‘Scientific Data Management’, CSIR-INSTI, Accra 31 March 2008-10 April 2008
- Course Director & Resource person: CTA sponsored Regional Course on ‘Scientific Data Management’, Lusaka, Zambia 27th October- 6th November 2008
- Data Management Workshop, Lake Kivu FARA-CG Change Program, Kigali 17-20 February 2009
- Data Management Workshop, Zimbabwe FARA-CG Change Program, Harare 2-6 March 2009
- Data Analysis Workshop, FARA-CG Change Program, Ruwengeri, Rwanda 23-28 May 2009
- Course Director & Resource person: CTA sponsored Regional Course for Special Countries (Liberia and Sierra Leone), CSIR Accra Ghana on ‘Scientific Data Management’, 14th to 25th September 2009
- Course Director & Resource person: CTA sponsored Regional Course for Lusophone Countries on

‘Scientific Data Management’, Eduardo Mondlane University, Maputo, Mozambique 8th to 19th February 2010

- **Consultant Biometrician**, Sub-Saharan Africa-Challenge Program on IAR4D, FARA, Accra and **Coordinator of Cross-Site Research Support Team (CRST)** November 20th 2008 to Date; Task is to prove the concept

5. UNIVERSITY COURSES TAUGHT, PROJECT SUPERVISION, EXTERNAL ASSESSMENT

- SUBJECTS TAUGHT AT UNIVERSITY LEVEL (BSc-PhD)
- Forest Mensuration 1976-1986
- Growth and Yield 1977-1984
- Design and Analysis of Experiments 1976-2010
- Probability and Introductory Statistics 1976-2006
- Sampling Techniques (Basic and Advanced) 1976-2010
- Linear Models 1996-2009
- Multivariate Statistics 2001-2007
- Environmental Modelling 2005-2008
- Mathematical Modelling and Applications 2004-2008
- Sampling of Elusive Populations 2004-2010
- Research methodology 2006-2008
- Statistical Computing and Data Analysis 1996-2009

TITLES OF MSC/PhD THESES/DISSERTATIONS SUPERVISED

- Optimum number of strata determination in stratified random sampling
- Location-by-Species interaction in provenance trials
- A critical statistical assessment of height growth of exotic species
- Compatible volume and taper estimating system for *Gmelina arborea*
- Growth patterns in an untreated tropical rain forest ecosystem
- Growth prediction in some plantations of exotic tree species in *the Northern Guinea* of Nigeria
- A model of parasitism by *Trichogramma* sp. on the stalk borer *Chilo partellus* Swinhoe on sorghum
- Effect of an entomopathogenic fungus on dynamics and control of cassava green spider mite
- Modelling impact of ticks on productivity of livestock in Rusinga Island
- Spatial analysis of a set of experiments
- Statistical investigation of some nutritional characteristics of boarding *students in Kings College*
- Farmers’ perception of social forestry impact in the semi arid zone of Nigeria
- Poverty assessment in fishing communities in Lagos State, Nigeria
- Categorical modelling of low causes of enrolment in science programmes
- Variance modelling of multilocational forestry trials in Nigeria
- On techniques of multiple imputation and enhancement of SOLASTM
- Effects of Mahalanobis distance and prior probabilities on the performance of the linear and quadratic discriminant functions: A Monte Carlo approach.
- Analysis of repeated measures of weights of infants in the Tamale Metropolis
- Statistical analysis of malnutrition in Bolga District
- Models for hypertensive diabetes
- Malaria Incidence Models
- Multivariate-based algorithms for analysing large survey data
- Joint modelling of mother-child mortality (on-going)

OTHER EXPERIENCE/ACCOMPLISHMENT

- External Examiner, Ph.D. candidates, Univ of Zambia 1992; Moi University 1992/3; Ibadan, 2002
- External Examiner, M.Sc. candidates, Makerere University 2001, 2002 and 2004 sessions; University of Natal (now KwazuluNatal, Pietermaritzburg 2002;

- External Assessor, Associate Professorial candidates, ABU, Nigeria 1994; Ibadan 2010
- External Assessor, Professorial candidates, Univ of Ibadan and Nigeria, Nsukka Nigeria 2005.
- Associate Editor, Environmental and Ecological Statistics (1992 – 2004)
- Associate Editor, JABES 2003-2005
- Member, Editorial Board, Journal of Tropical Forest Resources (1997 – 2009);
- Member, Editorial Board (IITA Research) & Public. Review Committee (1994 – 2001)
- Member, Award Fund Committee, International Biometric Society (1996-2000)
- Founding Member, Sub-Saharan Africa Network of Inter. Biometric Society (1993-date)
- Group Secretary, International Biometric Society, Kenya (1992-Feb'93); Nigeria (1997-2000);
- Member, Editorial Advisory Committee, International Biometric Society (1994-1998)
- Principal coordinator, and member of LOC of the 5th Scientific Conference of the Sub-Saharan Africa Network (SUSAN) of International Biometric Society, IITA-Ibadan, 23-27 August 1999.
- Served on the CTA-convened technical team (1995) that drafted the terms of reference of a special study on 'Strengthening of Biometry and Statistics in Agricultural Research'.
- Session Organiser, 55th session of International Statistical Institute (ISI 2005 Sydney Australia), on 'Agricultural Investigations in Challenging Situations'.
- Member, International Programme Committee, International Biometric Society 2006
- Member, International Biometric Society GONC, 2006
- Member, Ghana National Committee, West Africa Examinations Council 2007- 2010
- Member, Research Sub-Committee, West Africa Examinations Council 2007-2010
- Member, Ghana Environmental Management Project, 2007- 2009
- Member, International Advisory Board on CAPTURED project, 2008- 30th May 2010

6. **SELECTED CONFERENCES AND WORKSHOPS ATTENDED (2003-Date)**

- 8th Scientific meeting of SUSAN –International Biometric Society, Natal, S. Africa June 2003
- AMU – International Conference of Mathematical Sciences, Abeokuta 16-22 November 2003
- 1st Pan-African Biomathematics Congress, Makerere University, Kampala 8-12 December 2003
- South Africa Statistical Association, 51st Annual Conference, UFS, Bloemfontein 2-5 Nov 2004
- COVIDSET (ANSTI) – Accra, Ghana 2005
- Sustainability and Environment, Near East University, Ercan, North Cyprus, 19-24 February 2007
- 10th Scientific Meeting of SUSAN - International Biometric Society, KNUST, Ghana July 2007
- COVIDSET (ANSTI) – South Africa, 2007
- AAU – Heads of Higher Education Institutions in Africa on 'Brain Drain', Tripoli, Libya 2007
- Higher Education Seminar, Galilee College, Israel, January-February 2008
- USAID sponsored Africa Regional Higher Education Summit, Kigali Rwanda 21-24 October 2008
- 12th General Conference of the Association of African Universities [Theme: Sustainable Development-role of Higher Education], Abuja, Nigeria 4-8 May 2009
- Association of Commonwealth Universities meeting of Executive Heads, and meeting of Commonwealth Ministers of Education, Kuala Lumpur, Malaysia, June 2009
- Association of Commonwealth Universities meeting of Executive Heads, Cape Town, 25-27 April 2010
- Commonwealth of Learning (COL)-UNESCO workshop on OER, Cape Town, 27-28 April 2010

7. **PUBLICATIONS**

- Edited Proceedings/Manuscripts - 3
- Chapters in Books/Manuals - 10
- Peer Reviewed Articles in Journals/Proceedings - 94
- Technical Report – FAO (2); CTA (several)
- Manuscripts Under Review – 2
- Published Abstracts/Posters - 5

8. **MEMBERSHIP OF PROFESSIONAL/SCIENTIFIC ASSOCIATIONS**

- International Biometric Society, IBS (Member of Council 2000 - 2007)
- Sub Saharan Africa Network of IBS

- International Association of Statistical Computing (since 2000)
- Elected Member, International Statistical Institute (from 2002)
- African Society of Biomathematics (Board Member 2003-Date)
- Fellow, Ghana Academy of Arts and Sciences (Since July 2006)

9. REFEREES

- Dr. Robert Asiedu, International Institute of Tropical Agriculture (IITA), PMB 2540, Ibadan Nigeria. Tel: +234 2 241 2626; [Email: r.asiedu@cgiar.org]
- Prof T A Bamiduro, Department of Statistics, University of Ibadan, Ibadan, Oyo State, Nigeria [Tel +234-803-3971992; email: adebayobamiduro@yahoo.com]
- Rodger Obubo, Training Programmes Manager, Technical Centre for Agricultural and Rural Cooperation (CTA), Postbus 380, NL 6700 AJ Wageningen, The Netherlands [Email: obubo@cta.int] Tel: +31 317 467146 Fax: +31 317 460067

Prof Kaku Sagary Nokoe, FGA

Tamale, Ghana 15th May 2010