# CURRICULUM VITAE

**CONTACT INFORMATION**

**Name** Atinuke Olusola Adebanji (PhD)

**Address** 748 Seymour Cresent

 London Ontario, Canada N6G 5N4

**Current position** Professor (Statistics)

**Tel. No. (Mobile)** +1 856-472-9208;+233 241860372

**Email:** tinuadebanji@yahoo.com

**Orcid**  <https://orcid.org/0000-0002-1239-6423>

**Webpages** <https://www.tinuadebanji.com>

https://knust.academia.edu/AtinukeOAdebanji

<https://www.researchgate.net/profile/Atinuke_Adebanji2>

## RESEARCH INTERESTS

* Multivariate Data Analysis (classification and data reduction)
* Structural Equation Models
* Biostatistics
* Generalized Linear models
1. **PROFESSIONAL EXPERIENCE**

#### **Career Management**

My career has been marked by steady progression from the rank of Assistant Lecturer in 2003 to Professor in 2018. I have held academic positions for 20 years and currently working at Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.

**KNUST Ranks No.1 in the world in Quality Education 2023 on United Nations’ Sustainable Development Goals, SDG-4, No.1 in West Africa, and N0. 14 in Africa (Times Higher Education, QS World University Rankings).**

##### **Academic Experience**

Aug 2018 to Date **Professor** (Statistics), Department of Statistics & Actuarial Science, Kwame Nkrumah University of Science and Technology **(KNUST)**, Kumasi, Ghana.

Aug ’13 to July ’18 **Associate Professor** (Statistics), Department of Mathematics, KNUST.

Dec ’09- July ’13 **Senior Lecturer**, Department of Mathematics, KNUST.

Feb to Mar 2009 **Visiting Scholar**, Department of Applied Mathematics, University for Development Studies (UDS), Navrongo, Ghana.

Mar ’07 to Dec ’09 **Lecturer I**, Department of Statistics, University of Agriculture Abeokuta (UNAAB), Nigeria – No. 23 university in Nigeria.

Apr ’05 to Mar ’07 **Lecturer II**, Department of Mathematics, the University of Agriculture Abeokuta (UNAAB), Nigeria. **No. 23 university in Nigeria.**

July ’03 to Mar ’05 **Assistant lecturer**, Department of Mathematical Sciences, University of Agriculture, Abeokuta (UNAAB), Nigeria.

Apr ’02 to May ’03 **Part-time lecturer**, Department of Statistics, University of Ibadan.

##### **Professional Experience Before Academia**

Jul ’92 to Sept ’94 **Trainee Manager (Accountant)**, UAC Nigeria PLC, Lagos.

Aug ’91 to Jul ‘92 **Statistician II**, External Trade Unit, Federal Office of Statistics, Ribadu Road, Ikoyi, Lagos.

**Academic Leadership/Research**

Aug 2020 to Date Member, College Appointments and Promotion Committee, College of Science, Kwame Nkrumah University of Science and Technology, (KNUST).

Aug ‘19 to Oct ‘23 Pioneer Head, Department of Statistics and Actuarial Science, KNUST.

Oct ‘18 to ‘19 Vice-Dean, Faculty of Physical and Computational Sciences, College of Science, KNUST.

Aug 2018 to Jul ‘19 Head, Department of Mathematics, KNUST.

2018 to 2022 Science Editor, Journal of Science and Technology, KNUST.

Feb to Aug 2017 Visiting Senior Research Scientist, Institute of Mathematical Sciences, Madrid, Spain on Women for Africa Foundation Fellowship.

Feb to Mar 2009 Visiting Scholar, AAU Staff Exchange, Department of Applied Mathematics, University for Development Studies, Ghana.

Apr ’08 to Dec ’09 Coordinator, Department of Statistics, University of Agriculture, Abeokuta (UNAAB), Nigeria.

Mar ’07 to Mar ’08 Visiting Scholar/Postdoc fellow, School of Mathematics, University of Nairobi, Kenya.

1. **INTELLECTUAL CONTRIBUTION**

### *Courses taught at HEI*

|  |  |  |
| --- | --- | --- |
| **BSC/Dip** | **MSc/MPhil** | **PhD** |
| Demography | Categorical Data Analysis | Biostatistics |
| Descriptive Statistics | Demographic studies | Categorical Data Analysis |
| Design and Analysis of Experiments | Epidemiology and Biostatistics | Generalised Linear Models |
| Distribution Theory | Generalised Linear Models | Mathematical Statistics |
| Epidemiology & Biostatistics | Mathematical Statistics | Multivariate Data Analysis |
| Further Regression | Multivariate Data Analysis | Statistical Inference |
| Introductory Statistics | Statistical Inference | Statistical Modelling Tools |
| Multivariate Data Analysis | Statistical Methods for Research |   |
| Nonparametric Statistics | Statistical Modelling Tools |   |
| Probability and Statistics | Statistical Models |   |
| Probability I & II |   |   |
| Regression Analysis |   |   |
| Sample Survey |   |   |
| Socio-Demographic Statistics |   |   |
| Statistical Methods |   |   |
| Time Series |   |   |
| Statistical computing |   |   |

1. ***Teaching Evaluation***

 **Grading: Very Good : (1 - < 1.5) Good : (1.5 - < 2.5) Average : (2.5 - < 3.5) Poor : (3.5 –**

 **<= 4) Very Poor : (> 4)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course Description** | **Course code** | **Level** | **Class Size** | **Assessment** |
| Introduction to Regression Analysis | STAT 367 | 300 | 182 | Very Good |
| Regression Analysis | MATH 369 |  | 274 | Good |
| Further topics in Regression Analysis | STAT 473 | 400 | 35 | Very Good |
| Statistical Inference | STAT 551 | PG | 32 | Very Good |
| Multivariate Data Analysis | STAT 556 | PG | 21 | Very Good |

##### ***Publications in Refereed Journals***

1. Tawiah P., Mensah P., Gyaabah S., **Adebanji A.O**., Konadu E and Amoah I. (2023). Gait speed and its associated factors among older black adults in Sub-Saharan Africa: Evidence from the WHO study on Global AGEing in older adults. *PLOS ONE*. **[Accepted]**
2. Owusu L.B., Zakaria A. S., Agyapong S., Akokrea R., & Adebanji A. O. (2023). Care of the newborn’s umbilical cord: The perspectives of mothers in a developing country. Journal of Neonatal Nursing, Elsevier. [29 (6](https://www.sciencedirect.com/journal/journal-of-neonatal-nursing/vol/29/issue/6)), PP 832-838.

 [https://doi.org/10.1016/j.jnn.2023.04.012]

1. **Adebanji, A.O**., Aschl, F., Chumo, E.C., Owiredu, E.O., Müller, J., & Mbegalo, T. (2023). Social Response and Measles Dynamics. Stats 2023, 6, 1280-1297.

 [https://doi.org/10.3390/stats6040079Stats]

1. Okutu, J., Frempong, N.K., Appiah, S.K. & **Adebanji, A.O.** (2023). The Odd Ramos-Louzada Generator of distributions with applications to failure and waiting times. *Scientific African*, Vol. 22, e01912, ISSN 2468-2276, https://doi.org/10.1016/j.sciaf.2023.e01912.

[https://www.sciencedirect.com/science/article/pii/S2468227623003678]

1. Pels W. A., **Adebanji A. O**., Twumasi-Ankra S., & Minkah R. (2023). Shrinkage Methods for Estimating the Shape Parameter of the Generalized Pareto Distribution. *Journal of Applied Mathematics*, *Hindawi,* vol. 2023, Article ID 9750638, 11 pages.

 [https://doi.org/10.1155/2023/9750638]

1. Okutu, J. K., Frempong, N. K., Appiah, S. K., & **Adebanji, A. O.** (2023). A New Generated Family of Distributions: Statistical Properties and Applications with Real-Life Data. *Computational and Mathematical Methods, Hindawi,* ISSN 2577-7408.

[<https://doi.org/10.1155/2023/9325679>]

1. Ukam G., Adams C., **Adebanji A**., & Ackaah W. (2023). Variability of Paratransit travel times: The case of Kumasi, Ghana, *Urban Planning and Transport Research, Routledge, Taylor and Francis*11:1, 2261519, DOI: 10.1080/21650020.2023.2261519

[<https://doi.org/10.1080/21650020.2023.2261519>]

1. Ukam G., Adams C., **Adebanji A**., & Ackaah W. (2023). Factors affecting paratransit travel times at route and segment levels. *International Journal of Transportation Science and Technology*, ISSN 2046-0430, doi.org/10.1016/j.ijtst.2023.06.001.

[<https://www.sciencedirect.com/science/article/pii/S2046043023000503>]

1. Ajayi S. A., Adams C. A., Dumedah G, **Adebanji A. O.**, Ababio-Donkor A, & Ackaah W., (2023). Public perceptions of vehicular traffic emissions on health risk in Lagos metropolis Nigeria: A critical survey, *Heliyon.*

<https://doi.org/10.1016/j.heliyon.2023.e15712>

1. Ajayi S. A., Adams C. A., Dumedah G, **Adebanji A. O.**, Ababio-Donkor A, Ackaah W & Kehinde A. (2023). The impact of traffic mobility measures on vehicle emissions for heterogeneous traffic in Lagos City. *Scientific African*, Volume 21, e01822, ISSN 2468-2276.

[doi.org/10.1016/j.sciaf.2023.e01822](https://doi.org/10.1016/j.sciaf.2023.e01822).

 [<https://www.sciencedirect.com/science/article/pii/S2468227623002788>]

1. Ibili F., Adams C. A., **Adebanji A. O.** & Andam-Akorful S. (2023). [The state-of-the-art of practice of traffic noise regulations in Ghana](https://journals.sagepub.com/doi/full/10.1177/09574565231161645). *Noise & Vibration Worldwide*, SAGE, 09574565231, doi 10.1177/09574565231161645.

[https://journals.sagepub.com/doi/10.1177/09574565231161645]

1. Asosega K. A., Aidoo E. N., **Adebanji A. O**. & Owusu-Daabo E. (2023). Examining the risk factors for overweight and obesity among women in Ghana: A multilevel perspective. *Heliyon, Elsevier* 9(5).doi.org/10.1016/j.heliyon.2023.e16207.

[https://pubmed.ncbi.nlm.nih.gov/37229171/]

1. Ackora-Prah J, Okyere S, Bonyah E, **Adebanji A**., & Boateng Y. (2023). Optimal control model of human-to-human transmission of monkeypox virus. *F1000Research* 2023, **12**:326 .

[<https://doi.org/10.12688/f1000research.130276.1>]

1. Ojo K. T., Appiah B.A., Obiri-Yeboah A., **Adebanji A.O**., Donkor P. & Mock C. (2022). Structural equation modelling of pedestrian behaviour at footbridges in Ghana. *International Journal of Injury Control and Safety Promotion*, Taylor and Francis, 29(4), pp.489 - 499.

[https://doi: [10.1080/17457300.2022.2081984](https://doi.org/10.1080/17457300.2022.2081984)]

1. **Adebanji A**, Rios Insua D, & Ruggeri, F. (2022). Dynamic linear models for policy monitoring. The case of maternal and neonatal mortality in Ghana. *Socio-Economic Planning Sciences*, *Elsevier,* 83(101348), ISSN 0038-0121,

[https://doi.org/10.1016/j.seps.2022.101348]

1. Ojo K. T., Appiah B.A., Obiri-Yeboah A., **Adebanji A.O**., Donkor P. & Mock C. (2022). An intercept survey of the use and non-use of footbridges in Ghana. *Case Studies on Transport Policy*, *Elsevier,* 10(3), pp.1581-1590.

[<https://doi.org/10.1016/j.cstp.2022.05.016>]

1. Iddrisu B. D., Kwablah K. P., Prempeh E. B. A., Azorlibu J. S., Akrong S. D., Kpeglo C. S., Adedia, D., **Adebanji A. O.**  & Appiah S. K. (2022). Statistical Analysis of Misfiling Causes in Higher Education: A Test Construction. *Asian Journal of Education and Social Studies*, 33(3), pp. 33-44. Doi: 10.9734/ajess/2022/v33i330793.

[https://www.researchgate.net/publication/363801258\_Statistical\_Analysis\_of\_Misfiling\_Causes\_in\_Higher\_Education\_A\_Test\_Construction]

1. Apprey C., Baah-Nuako B.A., Annaful V.T., **Adebanji A.O.** & Dzogbefia V. (2022). Dietary intake and prevalence of metabolic syndrome among tanker truck drivers in Ghana. *Nutrition & Food Science,* 52(7), pp. 1055-1069.

[<https://doi.org/10.1108/NFS-08-2021-0250>]

1. Owusu L.B., Apprey C., Diji A.K.-A. & Adebanji A. (2022). Association between iron supplementation and anaemia in pregnant women in Ghana, Nutrition & Food Science, 52(2), pp. 308-319, doi.org/10.1108/NFS-03-2021-0105.

[https://www.emerald.com/insight/content/doi/10.1108/NFS-03-2021-0105/full/html]

1. Aidoo E. N., Ampofo R.T., Awashie G.E., Appiah S.K & Adebanji, A.O. (2021). Modelling COVID-19 incidence in the African sub-region using smooth transition autoregressive model. Modeling Earth Systems and Environment, Springer, 8, pp. 961–966.

[<https://doi.org/10.1007/s40808-021-01136-1>]

1. Adedia D., Adebanji A. O., & Appiah S. K. (2021). Calculating Non-Centrality parameter for power analysis under structural equation modelling: An alternative. Pakistan Journal of Statistics and Operation Research, 17(1), pp. 273-289.

[<http://dx.doi.org/10.18187/pjsor.v17i1.3148>]

1. Asosega K., **Adebanji** **A.O**., & Abdul Wahab, I. (2021). Spatial analysis of the prevalence of obesity and overweight among women in Ghana. *BMJ Open*, 11(1)e041659, doi:10.1136/bmjopen-2020-041659.

[https://bmjopen.bmj.com/content/11/1/e041659]

1. Aidoo E. N, **Adebanji A. O**., Awashie G. E. & Appiah S. K. (2021). The effects of weather on the spread of COVID-19: evidence from Ghana. *Bulletin of the National Research Centre, SpringerOpen* 45(1), pp. 20.

[<https://doi.org/10.1186/s42269-021-00484-3>]

1. Adedia D., Adebanji A.O., & Appiah S.K. (2020). Comparative Analysis of some Structural Equation Model Estimation methods with applications to Coronary Heart Disease Risk. Hindawi Journal of Probability and Statistics, Article ID 4181426, 15.

 [https://doi.org/10.1155/2020/4181426]

1. Pels W. A., **Adebanji** **A. O**., & Twumasi-Ankra S. (2020). Comparison of Parameter Estimators for Generalized Pareto Distribution under Peak over Threshold. *Mathematics and Statistics*, 8(6), pp. 711 – 720. DOI: 10.13189/ms.2020.080612.

[https://www.hrpub.org/journals/article\_info.php?aid=10423]

1. Butakor P., Guo Q. & **Adebanji A.O.** (2020). Using structural equation modelling to examine the relationship between Ghanaian teachers' emotional intelligence, job satisfaction, professional identity, and work engagement. *Psychology in the Schools, Wiley Online*, 58(3), pp. 534-552**.**

[<https://doi.org/10.1002/pits.22462>**]**

1. Owusu-Ansah E. D.J.’ **Adebanji A. O.** & Nimako-Aidoo E. (2020). Data Driven Modeling of Projected Mitigation and Suppressing Strategy Interventions for SARS-COV 2 in Ghana.Populations and Evolution (q-bio.PE); *Applications (stat.AP)*, arXiv:2004.0900.

[https://arxiv.org/abs/2004.09009]

1. Asosega K., Adedia, D. & **Adebanji A.**(2020). Sensitivity Analysis of the Quadratic Discriminant Function for Predicting Pregnancy Outcomes. Journal of Scientific Research and Reports, 26(2), pp. 60-69.

[<https://doi.org/10.9734/jsrr/2020/v26i230225>]

1. Ocran E. K., **Adebanji A.O. &** Sarpong S. (2019). Modelling domestic tourism demand for Ghana. Journal of Tourism, Hospitality and Sports, ISSN (Paper) 2312-5187, 40, pp 94-109.

[https://doi.10.7176/JTHS/40-09]

1. Ocran E. K., **Adebanji A.O.**& Sarpong S. (2019). The impact of sociodemographic factors on domestic tourism expenditure in Ghana. Journal of Tourism, Hospitality and Sports, ISSN (Paper), 41, pp 35-45.

[https:// doi.10.7176/JTHS/41-05]

1. Pels W.A., Twumasi-Ankrah S. & **Adebanji A.O.** (2019). Information Criterion for Selecting Competing Models using different Weighting Schemes. International Journal of Applied Mathematics and Statistics, 58(2), pp. 54-63. Corpus ID: 219280137.

[No paper link available]

1. Purbalanta R. & **Adebanji A. O.** (2017). Bayesian Spatial Ordinal Models for Regional Household Poverty Severity. *American Journal of Mathematics and Statistics;* 7(2), pp.78-88.

[http://article.sapub.org/10.5923.j.ajms.20170702.04.html]

1. Asiedu L., **Adebanj**i **A.O**., Oduro F. & Mettle F. (2016). Statistical Assessment of PCA/SVD and FFT-PCA/SVD on Variable Facial Expressions. *British Journal of Mathematics and Computer Science,* 12(6), pp. 1-14. Doi10.9734/bjmcs/2016/22141.

[https://journaljamcs.com/index.php/JAMCS/article/view/596]

1. Adedia D., **Adebanji** A., Labeodan M. & Adeyemi S. (2016). Ordinary Least Squares and Robust Estimators in Linear Regression Impacts of Outliers, Error and Response Contaminations. *British Journal of Mathematics and Computer Science*, 13(4), pp. 1-11. doi 10.9734/bjmcs/2016/22876.

[https://journaljamcs.com/index.php/JAMCS/article/view/571]

1. Asamoah-Boaheng M, **Adebanji A.,** & Labeodan O. (2016). Some zero mean classification functions with unequal prior probabilities and non-normality. *Journal of Statistical and Econometric Methods,* 5(3), pp.11-31.

 [https://www.researchgate.net/publication/307599425\_Some\_zero\_mean\_classification\_functions\_with\_unequal\_prior\_probabilities\_and\_non-normality]

1. Adedia D., Adebanji A.O., & Appiah S.K. (2016). Leverage Effect on Robust Regression Estimators. *Journal of Mathematical Theory and Modelling* (iiste), 6(7), pp. 53-61.

 [[http//iiste.org/Journals/index.php/MTM/article/view/31546/32418](http://iiste.org/Journals/index.php/MTM/article/view/31546/32418)]

1. Puurbalanta R. & **Adebanji** A.O. (2016). Household poverty-risk analysis and prediction using Bayesian Ordinal Probit Models. *International Journal of Statistics and Applications*, 6(6), pp 399-407. DOI:10.5923/j.statistics.20160606.09.

[http://article.sapub.org/10.5923.j.statistics.20160606.09.html]

1. **Adebanji A.,** Asamoah-Boaheng M. & Osei-Tutu O. (2016). Robustness of the Quadratic Discriminant Function to correlated and uncorrelated standard training samples. *SpringerPlus*, 5102. DOI.10.1186/s40064-016-1718-3 URL

[[http//www.springerplus.com/content/5/1/102](http://www.springerplus.com/content/5/1/102)]

1. **Adebanji A.,** Asamoah-Boaheng M. & Osei-Tutu O. (2016). Asymptotic performance of the quadratic discriminant function to skewed training samples. *SpringerPlus,* 51530. doi10.1186/s40064-016-3204-3

[[http//www.springerplus.com/content/5/1/102](http://www.springerplus.com/content/5/1/102)]

1. Asiedu L., Oduro F., **Adebanj**i **A.O**., & Mettle F. (2016). A statistical Assessment of Whitened PCA/SVD under variable environmental Constraints. *International Journal of Ecological Economics and Statistics*, 37(1), pp. 63-79.

[http://ceser.in/ceserp/index.php/ijees/article/view/4018]

1. Osuoji R. I., **Adebanji** A., Abdulsalam M. A. & Mobolaji A. (2015). Determinants of Specialty Choice of Resident Doctors; Case Study- Among Resident Doctors In Nigeria. *Nigerian Journal of Medicine*; 24(3), pp. 207-212.

[https://pubmed.ncbi.nlm.nih.gov/27487591/]

1. **Adebanji** A., Adeyemi S. & Gyamfi, M. (2015). Empirical Analysis of factors associated with neonatal length of stay in Sunyani, Ghana. *Journal of Public Health and Epidemiology*, 7(3), pp. 59-64. DOI10.5897/jphe2014.0679.

 [https://www.researchgate.net/publication/282419079\_Empirical\_analysis\_of\_factors\_associated\_with\_neonatal\_length\_of\_stay\_in\_Sunyani\_Ghana]

1. Puurbalanta R., & **Adebanji A.**  (2015). Determinants of low birth weight neonates: A case study of Tamale metropolis in Ghana. *Journal of studies in management and planning;* 01(02), pp 90-102.

 [http://internationaljournalofresearch.org/index.php/JSMaP]

1. Asiedu L., **Adebanj**i **A.O**., Oduro F., & Mettle F. (2015) ‘Statistical Evaluation of face recognition techniques under variable environmental constraints’ *International Journal of Statistics and Probability*, 4(4), pp. 93 – 111.

[DOI:10.5539/ijsp.v4n4p93].

1. Owiredu O., **Adebanji A.** & 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), pp. 62-71. ISSN 0973-1377.

**[**https://www.academia.edu/26988504/ARIMA\_Noise\_Model\_for\_A\_Segmented\_Intervention\_Analysis\_of\_Maternal\_Health\_Policy\_on\_Assisted\_Delivery]

1. Owiredu O., **Adebanji A.** & Labeodan O. (2014). Using Holt Winter’s Multiplicative Model to Forecast Assisted Childbirths at the Teaching Hospital in Ashanti Region, Ghana. *Journal of Biology, Agriculture and Healthcare* (IISTE) 4(9), pp. 83-88.

 [https://iiste.org/Journals/index.php/JBAH/article/view/12662]

1. Puurbalanta R., **Adebanji A. &** Clottey R. (2014). Poisson Log-Linear Analysis of Postpartum Length of Stay. *The International Journal of Science and Technology*, 2(12), pp. 82 – 88.

[https://www.researchgate.net/publication/282122881\_Poisson\_Log-linear\_Analysis\_of\_Postpartum\_Length\_of\_Stay]

1. Salako V.K, **Adebanji A.** & Kakai R. (2013). On the Empirical Performance of Non-Metric Multidimensional Scaling in Vegetation Studies. *International Journal of Applied Mathematics and Statistics (IJAMAS),* 36(6), pp. 54-67.

[https://www.researchgate.net/publication/233765820\_On\_the\_empirical\_performance\_of\_non-metric\_multidimensional\_scaling\_in\_vegetation\_studies]

1. Baah P., **Adebanji A.** & Kakai R. (2013). Optimal Ratio of Continuous to Categorical Variables for the Two Group Location Model. *International Journal of Applied Mathematics and Statistics (IJAMAS),* 42(12), pp. 18-26.

 [https://www.researchgate.net/publication/237076638\_Optimal\_ratio\_of\_continuous\_to\_categorical\_variables\_for\_the\_two\_group\_location\_model]

1. Anzagra L., **Adebanji A. O.** & Birteeb T. (2013). Average Time to Justice Delivery; A Case Study in the Upper West and East Regional District and Circuit Courts in Ghana. *Jr. of Developing Country Studies (IISTE),* 3(5), pp. 15-21; ISSN 2224-607X (Paper) ISSN 2225-0565 (Online).

[https://www.iiste.org/Journals/index.php/DCS/article/view/5494]

1. Ariyo O. S., & **Adebanji A.O.** (2011). Robust Linear Classifier for Unequal Cost Ratios of Misclassifications**.** *Central Bank of Nigeria (CBN) Journal of Applied Statistics*, 2(1), pp. 51 – 59.

[https://dc.cbn.gov.ng/jas/vol2/iss1/4/]

1. Owino J., **Adebanji A.O**., Ingwe M. & Njoroge J. (2010). Spatial Binomial Generalized Linear

 Model of Tree Species occurrence in Mt. Kenya region. *The East Africa Journal of Statistics.*

[No paper link available]

1. **Adebanji** **A.O.**, Nokoe K. S. & Adeyemi S. (2010). Effects of Sample Size Ratio on the Performance of the Quadratic Discriminant Function. *ASSET- An International Journal of the University of Agriculture, Abeokuta, Nigeria,* Series B, 9(1), pp. 29 - 37.

[No paper link available]

1. **Adebanji** **A.O.**, Nokoe K.N & Iyaniwura J.O. (2010). Error Rates Stability of the Homoscedastic Discriminant Function. *ASSET- An International Journal of the University of Agriculture, Abeokuta, Nigeria,* Series B, 9(2), pp. 6 – 13.

[No paper link available]

1. **Adebanji** A. O., Achia T., N’getich R., Owino J. & Wangombe A. (2008). Spatial Durbin Model for Poverty Mapping and Analysis. *European Journal for Social Sciences;* 5(4), pp. 195-205.

[No paper link available]

1. **Adebanji** A. O., Adeyemi S. & Iyaniwura J. O. (2008). Effects of Sample Size Ratios on the Performance of the Linear Discriminant Function. *International Journal of Modern Mathematics;* 3(1), pp. 97-108*.*

**[**[http//ijmm.dixiewpublishing.com/](http://ijmm.dixiewpublishing.com/)]

1. Adeyemi S. & **Adebanji A.O.** (2007) ‘Moments of Order Statistics from Doubly Truncated BURR XII Distributions A complementary note with Applications’, *Journal of Statistical Research (ISRT)*, Bangladesh, 41(1), pp. 37 – 50.

[http//www.ajol.info/viewissue.php?jid=219&ab=ijs&id=2609]

1. Adeyemi S. & **Adebanji A. O.** (2006). The Exponentiated Generalized Extreme Value Distribution. *Journal of Applicable Functional Differential Equations (JAFDE)*, India, 1(1), pp. 89-95.

**[**https://www.researchgate.net/publication/264991805\_The\_Exponentiated\_Generalized\_Extreme\_Value\_Distribution**]**

1. **Adebanji A. O.** & Iyaniwura O.J. (2004). Discriminant Analysis as a Technique for Classifying Nigerian Households into Poverty Levels. *Journal of Nigeria Institute of Social and Economic Research* **-** *Research for Development* 20(1), pp. 24 – 46.

[[http//www.niser.org/abstract.htm](http://www.niser.org/abstract.htm)]

1. Adeyemi S. & **Adebanji** A. (2004). The Exponentiated Generalized Pareto Distribution. *Ife Journal of Science* 6(2), pp. 127-133.

[[http//www.ajol.info/viewissue.php?jid=219&ab=ijs&id=2609](http://www.ajol.info/viewissue.php?jid=219&ab=ijs&id=2609)]

##### ***Publications in Refereed Conference Proceedings***

1. Ukam G., Adams C., **Adebanji A**., & Ackaah W. (2023). Investigating factors affecting Paratransit Travel Times: Perspectives from two Paratransit Routes in Kumasi, Ghana. African Cities Conference (ACC 2023): A part of African Cities Lab 2023 Summit, **Benguerir, Morocco, May 23-24, 2023.**

<https://doi.org/10.1051/e3sconf/202341802008>

1. Ajayi S. A., Adams C. A., Dumedah G., & **Adebanji A. O.** (2023). The impact of vehicle engine characteristics on vehicle exhaust emissions for road transport models in Lagos city. *Transportation Research Procedia, Elsevier,* World Conference on Transport Research-WCTR 2023 Montreal 17-21 July 2023.
2. Odame O. & Adebanji, A. (2021). Reimagining online statistical education for accelerated teaching and learning; a perspective from West Africa. 12th International Association for Statistical Education (IASE) GAAS Satellite Conference.
3. Adebanji A. (2020). Women in Statistics and Data Science, World Statistics Day Symposium, KNUST, 2020.
4. Vance E., Awe O., Ganguli B., Olubusoye O., Adenomon, M.O., Gebru, D., Trueha, K., Vivacqua, C., **Adebanji, A**. & Suleiman, S. (2019). Statistical Practice Around the World. ASA Conference on Statistical Practice, New Orleans, LA
5. **Adebanji A.** (2018). Statistical Models for Healthcare Intervention assessment’ *XXIXth International Biometric Conference*, 8th July, Barcelona Convention Centre, Barcelona, Spain.
6. **Adebanji A.** (2017). Statistical estimation of neonatal mortality risk. 5Th *workshop on games and decisions in risk and reliability. GDRR 2017* at the Academy of Sciences, Madrid, Spain, 7-9 June, 2017.
7. **Adebanji A.,** & Tagbor, H. (2016). Spatial Analysis of under-5 malaria in Ghana (DHS 2008) for public health intervention evaluation. *Proceedings of Women in Science and Technology for the Developing World Fifth General Assembly and International Conference*, May 16-19, 2016, Kuwait.
8. Baah P. & **Adebanji A.** (2012). *7th International Salford Analytics and Data Mining Conference,*  San Diego, California, United States from May 23-25, 2012.
9. Alhassan A. & **Adebanji A.** (2011). Discriminant Analysis as a tool for under five years anthropometric classification in Ghana. *Biennial conference of Sub-Saharan Africa Network (SUSAN) of International Biometric Society, 2011 Conference*; Global trends in quality of life through Biometry; University of Botswana, Gaborone; conference proceedings; pp. 85-94.
10. Titiloye N., Afriyie, O. & **Adebanji, A. O.** (2011)**.** Abstracts of the 6th Joint meeting of the *British Division of the International Academy of Pathology and the Pathological Society of Great Britain & Ireland,* 10-13 May 2011, On-line Supplement to the Journal of Pathology, Volume 224, Issue S2, Pages S1–S39.
11. Oludotun A, **Adebanji A.** & Asiribo E. (2009). Minimizing the Kurtosis Displayed by Financial Data using Conditional Distribution’ Proceedings of *3rd International Conference on Science and National Development* and the Theme is Relevance of Science In The Attainment of Vision 20/2020; pp. 51-58.
12. Akintunde A. A., Asiribo O.E., **Adebanji** **A.O.,** Adelakun, A. A. & Agwuegbo S.O.N. (2009). Stochastic Modelling of Daily Precipitation in Abeokuta. Proceedings of *3rd International Conference on Science and National Development* and the Theme is Relevance of Science In The Attainment of Vision 20/2020; pp. 108 – 118.
13. **Adebanji A. O.** & Manda S. (2005). Asymptotic effect(s) of the Mahalanobis Distance on the performance of the Linear Discriminant Function. *COLNAS 2004 Conference proceedings* pp. 52 - 62.
14. **Adebanji A.** &Ofodile S. (2005). Body mass index (BMI) of the mother as a nutritional status indicator for child age 0-5 years. Proceedings of *Third World Organization for Women in Sciences (TWOWS) International Conference* pp. 284 - 286 - Women’s Impact on Science and Technology in the New Millennium, Bangalore, India, 21-25 November 2005.
15. Adeyemi, S. & **Adebanji, A.** (2005). Some recurrence relations for moments of order statistics from a generalised log-logistic distribution Proceedings of *the International Conference in honour of Profs E. O. Oshodi and J. O. Amao*, pp. 13 – 19.
16. **Adebanji, A. &** Sagary Nokoe (2004); Malnutrition in Nigerian Children (0-5years); Classification and Distribution (IBC 2004, Cairns (Australia) conference proceedings.

[[http//www.ozaccom.com.au/cairns2004/contsess\_fri.html](http://www.ozaccom.com.au/cairns2004/contsess_fri.html)]

1. **Adebanji, A.** (2003); The Quadratic Classifier for Household Poverty Classification; Biometry in Poverty Alleviation programmes, *SUSAN 2003 conference proceedings.* pp. 56-59.

[[http//www.tibs.org/WorkArea/downloadasset.aspx?id=636](http://www.tibs.org/WorkArea/downloadasset.aspx?id=636)]

1. **Atinuke, A., &** Nokoe, K. S. (2003); Evaluating the Quadratic Classifier; *World Scientific Publishing,* Singapore, PP. 369-374.

[http//eproceedings.worldscinet.com/9789812702487/9789812702487\_0020.html](http://eproceedings.worldscinet.com/9789812702487/9789812702487_0020.html)

#####

##### **Other publications**

**Book Chapter**

**Atinuke Adebanji** and Suleiman Salami: Women in STEM, Progress and Prospects: The Case of a Ghanaian University; Chapter 15 of Promoting Statistical Practice and Collaboration in Developing Countries; Editorial matter: O. Olawale Awe, Kim Love and Eric A. Vance; Countries (1st Ed., 634 pages). Chapman and Hall/CRC.

[https://doi.org/10.1201/978100326114]8]

###### **Thesis and dissertation**

1. **Atinuke Adebanji** (2016); Spatial Analysis of Under-5 Malaria in Ghana (DHS 2008) for Public Health Intervention Evaluation, MPH Thesis, KNUST.
2. **Atinuke Adebanji** (2006); Effects of Mahalanobis Distance and Prior Probabilities on the performance of the Linear and Quadratic discriminant functions A Monte Carlo Approach.
3. **Adebanji A. O.** (2001) Discriminant Analysis as a technique for classifying Nigerian households into poverty groups and income levels. M.Sc. project report, University of Ibadan, Nigeria.
4. **Sanni A. O.** (1990) Statistical Analysis of some crime rates in Nigeria. B.Sc. project report, University of Ilorin, Ilorin, Nigeria.

###### **Institute of Distance Learning publications**

1. **A. O. Adebanji** and Nana Frempong (2011); Introduction to Probability and Statistics (STAT 270).
2. **Atinuke Adebanji** (2011); Design and Analysis of Experiments (MATH 484)
3. **Atinuke Adebanji** and K. Darkwah (2012); Statistical Inference I (STAT 261)
4. Isaac Adjei, **A. Adebanji** and K. Darkwah (2012); Statistical Inference II (STAT 262).
5. **Atinuke Adebanji** and Rev.Obeng Denteh (2012); Sample Survey Theoryand Methods I (STAT 365).
6. **Atinuke Adebanji** and E. Prempeh (2012); Sample Survey Theoryand Methods II (STAT 366).
7. N. Frempong and **A. Adebanji** (2013); Further topics in regression (STAT 473).
8. **Atinuke Adebanji**, Charles Sebil and K. Gyamfi (2013); Multivariate Data Analysis (STAT 466).
9. **A.O. Adebanji** and Isaac Adjei (2012); Design and Analysis of Experiment I (STAT 467).
10. **A.O. Adebanji**, K Darkwah and I. Adjei (2012); Design and Analysis of Experiments II (STAT 468). **Adebanji A.O.** (2014); Multivariate Data Analysis for MSc Applied Statistics.
11. **Adebanji A.O.** (2014); Statistical Inference for MSc Applied Statistics.

##### ***Scientific Reviewer Activities***

* + - Psychology in the schools
		- Heliyon
		- BMJ
		- Elsevier
		- PLOS One
		- Emerald
		- Modeling Earth Systems and Environment
		- Statistics in transition, new series
		- Journal of Modern Applied Statistical Methods, Wayne State University.
		- African Journal of Applied Statistics
		- Journal of Nigerian Statistical Association
		- Journal of Science and Technology (JUST), KNUST
		- Federal University of Agriculture, Abeokuta (FUNAAB) Journal of Natural Sciences, Engineering and Technology, Nigeria.

## KNOWLEDGE AND INTELLECTUAL ABILITY NEEDED TO CARRY OUT EXCELLENT RESEARCH

#### **Academic literacy and numeracy**

Statisticians have evolved from managing and analysing small data sets to managing, analysing, and reporting (as statistical consultants) on mega-sized multidimensional and multidisciplinary data sets in previously unimaginable short computational time. As a statistician and faculty member in higher education for two decades, I have educated, advised and guided others in appropriate academic literacy and numerate skills.

##### **Academic Qualifications**

MPH (Population, Family KNUST, Ghana Aug 2014 - Nov 2016

and Reproductive Health

Ph.D. Statistics University of Ibadan Sept 2001 - April 2006 M.Sc. Statistics University of Ibadan Sept 1999 - April 2001

Certificate of Achievement NCR, Lagos Jan-July 1992

 Programming and Analysis

B.Sc. (Hons) Statistics University Of Ilorin Sept 1986 - June 1990

#### **Related skills**

* Proficient in Statistical Software (Stata, SPSS, GENSTAT with working knowledge of R)
* Proficient in Microsoft Office Suite
* Proficient in Latex and online document sharing applications
* Good presentation and communication skills

##### ***Membership of Professional Associations***

* International Biometric Society (IBS)
* Organization for Women in Science for Developing World (OWSD)
* International Statistical Institute
* Caucus for Women in Statistics ([https//cwstat.org/about/people/committees](https://cwstat.org/about/people/committees))
* World Women in Mathematics (WM)
* Fellow, Mujeres Por Africa (MxA)
* Fellow, African Scientific Institute
* Executive Committee Member, Women in Science, Engineering, Technology and Mathematics (WiSTEMGh)
* AuthorAID
1. ***Participation in International and Local Academic/Research Bodies***
	* Member, International Statistical Institute (ISI) Jan Tinbergen Awards
	Committee for 64th ISI World Statistics Congress (WSC) in Ottawa, Canada, July 2023.
	* Member, Florence Nightingale Award Committee, 31st International Biometric Conference, July 10-15, 2022, Riga, Latvia.
	* Member, International Biometric Society Governing Council (Ghana Region Rep), 2021 -25.
	* Elected member, International Statistical Institute, June 2020.
	* Member, Florence Nightingale Award Committee, 30th International Biometric Conference, Seoul, South Korea, 2020 (Virtual).
	* Member, International Statistical Institute (ISI) Jan Tinbergen Awards
	Committee for 63rd ISI World Statistics Congress (WSC) in The Hague, (The
	The Netherlands), July 2021.
	* Member, International Planning Committee, XXXth International Biometric Society, IBC2020 at Seoul, South Korea; 2018 - 2020.
	* Member of the Social Events Committee for the International Biometrics Society, IBC2020 at Seoul, South Korea; 2019 - 2020.
	* Ghana Country Representative, Caucus for Women in Statistics (https://cwstat.org/about/people/committees); 2018 – Date
	* International Mathematics Union Africa Region Assessor for Open Arm programme for the 2018 International Congress of Mathematicians held Aug 1-9, 2018, in Rio de Janeiro, Brazil.
	* Member, Editorial Board, African Journal of Applied Statistics.
	* Instructor and thesis supervisor, West African Science Service Centre on Climate Change and Adapted Land Use (WASCAL).
	* Fellow, Organization for Women in Science for Developing World (OWSD); 2001 – Date.
	* Deputy Regional Coordinator, Sub-Saharan Africa Network of the International Biometric Society (IBS); 2013 – 2017.

#### **Interdisciplinary collaborations**

In the course of my career, I have been privileged to collaborate with several researchers in multidisciplinary research, supporting the setting up of undergraduate and postgraduate programs in Statistics, serving as resource persons for statistical training workshops, and the originator and Coordinator of KNUST Laboratory for Interdisciplinary Statistical Analysis (KNUST-LISA).

**KNUST-LISA** (established in collaboration with LISA 2020 of the University of Colorado Boulder, USA) is mandated to:

1. Train postgraduate students who require data analytical skills in statistical computing, consulting, and Data science.
2. Effectively collaborate with researchers or other domain experts from their Departments and Faculties or institutions to improve the quality of research and statistical findings.
3. Teach statistical short courses/workshops to improve statistical skills and literacy in the University community and beyond.

**LISA related activities:**

* LOC Chair, 18th Biennial Conference of the International Biometric Society Sub-Saharan Africa Network (IBS-SUSAN), KNUST, Ghana, 10th to 15th September, 2023.
* LOC Chair, Global LISA 2020 International Symposium on Sustainability of Stat Labs, Impact Centre, KNUST, Ghana, 1st to 5th May 2022.
* Lead facilitator, International Programmes Office-LISA stata workshop for female scientists in KNUST, 28th to 30th March 2022.
* Lead facilitator, Statistical Modelling Workshop for Transport Engineers, TRECK Centre KNUST, 8th to 10th February and 28th to 30th June 2022.
* Organizer, USAID sponsored TEACH project Train-the-Trainers workshop (Introduction to stata, Choice models, and SEM) from 10th to 12th May 2021.
* Organizer, International Statistical Institute (ISI) sponsored Workshop on Numerical Methods for Statistical Models with R, 21st to 22nd October 2020, hosted by KNUST-LISA as part of regional LISA-2020 3rd Symposium.
* Organizer, International Statistical Institute (ISI) sponsored World Statistics Day and International Year of Women in Statistics & Data Science Symposium, hosted by KNUST-LISA and the Department of Statistics & Actuarial Science, date: 20th October 2020.
* Lead facilitator, KNUST-LISA training in Statistical Data Analysis and Data Visualization workshop for fifth and sixth-year Optometry and Visual Science students, KNUST; 20-24 January 2020.
* Principal Investigator, USAID funded project ‘Building Capacity of Female
Scientists in Data Analysis for Decision Making and Strategic Planning’; April and
November 2019.
* Lead facilitator, KNUST-LISA training of Power Distribution Services Management Information System (MIS) staff and managers on data analysis and analytics; July 08-10, 2019.

##### ***Conferences at which Research Papers were presented***

1. 64th World Statistics Congress of the International Statistical Institute (WSC-ISI2023), 16th to 20th July 2023, Ottawa, Canada.
2. 31st International Biometric Conference (IBC2022), 10th to 15th July 2022, Riga, Latvia.
3. USAID Higher Education Global Evidence Summit, May 03 to 18, 2022, Virtual.
4. 12th International Association for Statistical Education (IASE) Satellite Conference, 30 August - 4 September 2021, Virtual.
5. International Statistical Institute (ISI) 63rd World Statistics Congress (ISIWSD 2021), 11-16 July, 2021, Virtual.
6. XXXTH International Biometric Congress (IBC2020), Virtual, Sept to October 2020.
7. International Statistical Institute (ISI) 62nd World Statistics Congress, 2019, 18-23 August 2019, Kuala Lumpur.
8. World Women in Mathematics Meeting, July 31, 2018; Rio de Janeiro, Brazil.
9. International Congress of Mathematics, August 1-9, 2018; Rio de Janeiro, Brazil.
10. XXIXth International Biometric Conference, July 8 – 12, 2018; Barcelona Convention Centre, Barcelona, Spain.
11. African European Mediterranean Academies for Science Education (AEMASE), the AEMASE III conference in Paris, France, October 3-4, 2017.
12. Applied Bayesian School (ABS17), Villa del Grumello, Como (Italy), June 19 - 23, 2017.
13. 5th workshop on games and decisions in risk and reliability, GDRR 2017 at the Academy of Sciences, Madrid, Spain, June 7-9, 2017.
14. Fifth General Assembly and International Conference of Women in Science and Technology for the Developing World (OWSD), Kuwait, May 16-19, 2016.
15. Biennial Conference of Sub-Sahara Network of International Biometric Society (SUSAN 2013) held at the West End University College, Accra from August 4 - 8, 2013.
16. 7th International Salford Analytics and Data Mining Conference, San Diego, California, United States from May 23-25, 2012.
17. Biennial Conference of Sub-Sahara Network of International Biometric Society (SUSAN 2011), held at the University of Botswana, Gaborone, June 27– July 02, 2011.
18. Workshop 3 on Contemporary Problems in Mathematical Physics (COMPROMAPH3), University of Calavi, Cotonou, Republic of Benin, Oct 27– Nov 8, 2008.
19. Biennial Conference of Sub-Sahara Network of International Biometric Society (SUSAN 2005) held at the Ethiopian Institute of Agricultural Research, Addis Ababa, December 12 – 16, 2005.
20. Statistics in Chemistry and Chemical Engineering. Gordon Research Conference, Mt Holyoke College, South Hadley, MA, USA, July 17– 22, 2005.
21. Science for National Development (COLNAS 2004), College of Natural Sciences, University of Agriculture, Abeokuta, Nov 11-16, 2004.
22. XXIINDInternational Biometrics Conference (IBC 2004) parallel with Australian Statistical Conference (ASC 2004), Cairns, Australia, July 11-16, 2004.
23. Workshop2 on Contemporary Problems in Mathematical Physics (COMPROMAPH2), University of Calavi, Cotonou, Republic of Benin, Nov 1– 8, 2003.
24. African Mathematical Union-International Conference of Mathematical Sciences (AMU-ICMS), University of Agriculture, Abeokuta, Nigeria, Nov 16 – 22, 2003.
25. Biennial Conference of Sub-Sahara Network of International Biometric Society (SUSAN 2003), Biometrics Department, University of Natal, Pietermaritzburg, South Africa, July 7-11, 2003.

##

## D. PERSONAL EFFECTIVENESS

### D1. Personal Qualities

#### **Integrity**

I understand and demonstrate standards of good research practice in my research, stakeholder engagement, and administrative responsibilities. This has helped me function effectively as an academic in higher institutions and several academic bodies. This also informs my ability to shape policies and procedures of good research and resource management practices in my university and professional associations.

#### **Enthusiasm**

My enthusiasm has transcended into my being a source of inspiration to communities of local and international colleagues, students and researchers within and outside the University Community through community engagements.

##### **Recent Activities as a resource person outside KNUST**

2023 Keynote Speaker, Financial Economics Forum on “Impact of Socio-economic policies on trade and industry in developing economies”, 28th June 2023.

2023 Invited speaker at the Workshop on breaking the barriers to women and girls in mathematics through networking, collaboration, and mentorship, University of Agriculture, Makurdi, Nigeria, 5th June 2023.

2023 Keynote address at the University of Eldoret’s 10th Anniversary with the theme:Celebrating a Decade of Knowledge and Innovation, 20th March 2023, Eldoret, Kenya.

2023 Curriculum Reviewer (Mathematics Programme), PAN African University Institute for Basic Sciences, Technology and Innovation, Nairobi, Kenya, 27th February to 1st March 2023.

2022 Keynote speaker, University for Development Studies launch of Laboratory for Interdisciplinary Statistical Analysis, 29th June 2022.

2022 Invited speaker on “Quality Data, A must-have for developing economies,” Ghana Economics Forum, 13th June 2022.

2021 Panellist, Price Water Cooper (PWC) 27th Annual Virtual Education Conference Programme; Working together for a collaborative future, 66th -7th September 2021.

2021 Speaker, Ghana Education Services, Science Education Unit, Maths and Science for Sub-Saharan Africa (MS4SSA), 23rd to 27th August 2021.

2021 Speaker, ‘Career progression for Women in STEM’, 01 July 2021, WiSTEMGh, KNUST.

#### **Perseverance**

There is an 11-year gap between my BSc and my MSc degree. This required great perseverance and determination to excel in my newly chosen career, which I had come into from an academic hiatus. This personal quality has enabled me to progress steadily in my career while attending to my other duties.

#### **Self-confidence**

I inspire confidence and independence behaviour in others, seeking out sophisticated challenges to new/radical ideas. My level of self-confidence is evidenced in my international research and networking itinerary.

#### **Self-Reflection**

Self-reflection enables me to review and re-assess my actions and decisions to identify and critique the reasons that may lie behind them.

#### **Responsibility**

I have a responsibility to encourage the development of well-being in the people I engage in my personal and professional life.

#### **D2. Continuing Professional Development**

##### ***Some Courses and Workshops attended***

1. KNUST 2023 Summer School: Academia-Industry Partnership for National Development; 2nd to 5th October 2023.
2. Introduction to Bayesian Analysis, Stata Corp, online, April 2022.
3. LISA 2020 Global Sustainability Symposium, 01-05 May 2022, Kumasi.
4. Virtual Third LISA2020 symposium,Building CapacitytoTransform Evidence to Action, Virtual, Nov – Dec 2020.
5. Numerical Methods for Statistical Estimation, KNUST-LISA, October 21 – 23, 2020.
6. Second LISA2020 symposium: Statistical Collaboration, August 15 -18, 2019, Kuala Lumpur.
7. Dialogue on Innovative Higher Education Strategies (DIES)-DAAD Workshop on Navigating Women’s Careers in Higher Education, April 10-12, 2019; Koforidua, Ghana.
8. Re:publica 2018 on Digital Transformation and Society, in collaboration with Kumasi Hive and Deutsche Gesellschaft fur Internationale Zusammenarbeit (GIZ), Dec 14-15, 2018, Accra, Ghana.
9. Pre-Conference course on Compositional data, IBC2018, July 8, 2018, Barcelona Convention Centre, Barcelona, Spain.
10. KNUST 2018 Summer School, Improving Quality of Higher Education through Effective Measurement and Evaluation, August 20 to 24, 2018.
11. Applied Bayesian Statistics School 2017 (ABS17), Modeling Spatial And Spatio-Temporal Data With Environmental Applications, Villa del Grumello, Como, Italy, June 19-23, 2017.
12. 5th workshop on Games and Decisions in Risk and Reliability (GDRR 2017) at the Academy of Sciences, Madrid, Spain, June 7 - 9, 2017.
13. Total Quality Management Training, Department of Mathematics, KNUST, September 07, 2017.
14. Workshop on postgraduate supervision, Noda Hotel, Kumasi, February 07 – 09, 2012. Organized by Malaria Capacity Development Consortium (MCMC).
15. Categorical Data Analysis with GenStat*,* University of Botswana, Gaborone, June 27, 2011.
16. KNUST Quality Assurance training workshop on scientific writing and ‘integrating into the vision of KNUST’; October 18 - 19, 2010.
17. Workshop 3 on Contemporary Problems in Mathematical Physics (COMPROMAPH3). Training course/workshop organised by the International Chair of Mathematical Sciences, University of Calavi, Cotonou, Republic of Benin, Oct 27 – Nov 08, 2008.
18. Statistics and Statistical Computing with SAS, International Institute of Tropical Agriculture, Ibadan; July 21 - 25, 2008.
19. PEDAGOGY Training programme, University of Nairobi, Nairobi, Kenya; October 15 - 19, 2007.
20. Leadership and Rapid Response Initiative workshop, University of Nairobi, Nairobi, Kenya; November 7 - 8, 2007.
21. Workshop on Longitudinal Data Analysis. A pre-conference course organised by the Sub-Saharan Network of International Biometric Society, Ethiopian Agricultural Research Institute, Addis Ababa, December 10 - 12, 2005.
22. Workshop on Modelling in Life, Material Science, and Technology. Organised by the Abdus Salam International Centre for Theoretical Physics and held at Trieste, Italy, March 05 - April 03, 2004 (Certificate awarded).
23. 7th Regional College on Modelling, Simulation, and Optimization. Training course organised by the Institute of Mathematical Sciences, Ghana, and sponsored by the Abdus Salam International Centre for Theoretical Physics. Held at the Physics department, University of Cape Coast, Cape Coast Ghana, April 11 – 21, 2005 (Certificate awarded).
24. Workshop 3 on Contemporary Problems in Mathematical Physics (COMPROMAPH3). Training course/workshop organised by the International Chair of Mathematical Sciences, University of Calavi, Cotonou, Republic of Benin,Nov 01 – 08, 2003 (Certificate of Attendance awarded).
25. Workshop on Messy Data Analysis and Enhanced Sampling. Organised by the Sub-Sahara African Network of the International Biometrics Society and sponsored by the Technical Centre for Agricultural and Rural Cooperation (CTA) and held at the University of Natal, Pietermaritzburg, South Africa, July 04 – 06, 2003 (Certificate of Attendance awarded).
26. 5th Regional College on Modelling, Simulation, and Optimization. A college organised by the Ghana Atomic Energy Centre and sponsored by the Abdus Salam International Centre for Theoretical Physics. The venue was the University of Ghana, Legon, Accra, June 03 -13, 2003 (Certificate of Attendance awarded).

#### **D3. Responsiveness to opportunities**

I have consistently availed myself of opportunities through Fellowships, Schools and Workshops, conferences, and research grants for self and institutional development and career progression.

##### **Fellowships/Awards and Recognition**

* Member, Representative Council of the International Biometric Society, Ghana Rep, 2021 to 2025.
	+ Elected Member, International Statistical Institute; 2020
	+ Senior Research Scientist Fellowship of Women for Africa Foundation utilised at the Institute of Mathematical Sciences, Madrid, Spain; 2017.
	+ Fellow, African Scientific Institute; 2016 – Date.
	+ Association of African Universities staff exchange fellowship, utilized at the Department of Applied Mathematics, University for Development Studies; 2009.
	+ Organization for Women in Science for Developing World one-year postgraduate Fellowship award utilized at the School of Mathematics, University of Nairobi, Kenya; 2007 - 2008**.**

#### **Commitment to Research and Teaching**

My research itinerary since joining KNUST has been quite busy, resulting in the award of higher degrees to some students and publications in peer-reviewed journals.

**PhD Theses Supervision**

1. Louis Asiedu, Statistical Evaluation of Enhanced Face Recognition Techniques under Variable Constraints, KNUST, Ghana, Main Supervisor, **Completed 2016.**
2. Richard Puur-Balanta, Bayesian Spatial Ordinal models for regional household poverty severity in Ghana, UDS, Ghana, Main Supervisor, **Completed 2018.**
3. Quentin Fiarce Togbevi, Climate and Land use change impacts on the surface runoff, soil erosion, and sediment yield in Ouriyori catchment, Northwest, Benin, WASCAL, KNUST, Ghana, **Completed 2019**.
4. Stephen Amoah, Optimal Pricing Model For Risky Assets in a Competitive Market, KNUST, Ghana, Main Supervisor, **Completed 2020**
5. .Ebenezer Kojo Ochran, Measuring Domestic and Outbound Tourism in Ghana using household surveys, UDS, Ghana, Main Supervisor, **Completed 2021.**
6. David Adedia, Comparative Power Analysis and Parameter Estimation Methods For Structural Equation Modelling, KNUST, Ghana, Main Supervisor, **Completed 2021.**
7. Samuel Joel Kamun, An Efficient Asymptotic Analysis with biased samples, The Catholic University of East Africa, Kenya, Main Supervisor, **Completed 2021.**
8. Camara Jalaamang, Assessment of Climate-induced root-zone salinity in mangrove swamp rice production zones of the Gambia, WASCAL KNUST, Ghana, Main Supervisor, **Completed 2023.**
9. Samuel Ajayi, Environmental Mapping and Modelling of the impacts of urban transport on public health in selected African cities (Accra and Lagos), TRECK, KNUST, Co-supervisor **Completed 2023.**
10. Wilhemina Pels, Improved weighted information criterion for model selection in multivariate time series analysis, KNUST, Ghana, Main Supervisor Year IV
11. Fidelma Ibili, Geospatial modelling of traffic noise and its exposure along selected corridors in Kumasi, TRECK, KNUST, Co-supervisor **Completed 2023.**
12. Killian Asosega, Spatio-temporal analysis of obesity in Ghana, KNUST, Ghana, Main Supervisor Year III.
13. George Ukam, Modelling travel time variability and reliability of the public transport system in Kumasi, TRECK, KNUST, Co-supervisor **Completed 2023.**
14. Habib Foba, Early and late fertility in Chad: impact on maternal and child health. PAULESI, Univ of Ibadan, Nigeria, Main Supervisor, Year III.

**MPHIL MATHEMATICAL STATISTICS**

1. Ibrahim Sulemana, An optimal sampling strategy for unbalanced classification data, KNUST, Ghana, 2020.
2. Ezekiel Kofi Gyimah, The effect of probability sampling techniques on Gaussian Naïve Bayes classification of neonatal survival. KNUST, Ghana, 2018
3. Wilhemina Adoma Pels, Improved weighted information criterion for model selection in univariate time series analysis, KNUST, Ghana, 2018
4. Alfred Quarqoo, Comparative Analysis of Quadratic Discriminant Function (QDF) and Classification and Regression Tree (CART) for predicting Still Birth, KNUST, Ghana, 2017
5. Killian Asosega, Spatial analysis of obesity and overweight among Ghanaian women, KNUST, Ghana, 2015
6. Haruna Abdul-Karim, Spatial Analysis of poverty among women in Ghana, KNUST, Ghana, 2015.

**MPHIL APPLIED MATHEMATICS**

1. Michael Asamoah Boateng, Performance Evaluation of Classification Methods: The case of zero mean discrimination, KNUST, Ghana, 2014
2. David Adedia, Comparison of some Robust Regression Methods, KNUST, Ghana, 2014
3. Odame Owiredu Emmanuel, A Segmented Intervention Analysis of Maternal Health Policy on Assisted Delivery in Kumasi: A case study of KNUST Hospital (2000-2011), KNUST, Ghana, 2013
4. Kofi Asare-Bawauh, Identifying Predictive Latent Variables for Under 5 Malnutrition in Ghana, KNUST, Ghana, 2013
5. Olivia Osei-Tutu, Robustness of the Quadratic Discriminant Function (QDF) to Correlated and Skewed Training samples, KNUST, Ghana, 2012.
6. Philemon Baah, Asymptotic Performance Evaluation of the Location and Logistic Classification Models for Mixed Variable Ratios, KNUST, Ghana, 2012.
7. Richard Puurbalanta, Modelling the Incidence of Low Birth Weight in Tamale, KNUST, Ghana, 2011.

**MSC STATISTICS**

1. Samuel Oludare Ariyo, Cost Sensitivity of Classical Discriminant Functions, UNAAB, Nigeria, 2011.
2. Mark Gyamfi, Latent determinants of low birth weight neonates in Sunyani (Brong Ahafo region), UDS, Ghana, 2010.
3. Dotun Akinlawon, Modeling Stock Price Volatility using GARCH Model; UNAAB, Nigeria., UNAAB, Nigeria, 2009.
4. Abukari Alhassan, Discriminant analysis as a tool for under five Anthropometric classifications in Ghana, UDS, Ghana, 2009.
5. Lea Anzagra, Survival Analysis of average time to justice delivery in Ghana: A case study in Upper East and Upper West regions, UDS, Ghana, 2009.

**MSC APPLIED STATISTICS**

1. Keziah Poku Amponsah, Machine Learning Techniques for Predicting Birth Outcomes: A Delivery Registry-Based Study in Tertiary Level Health Facility, 2023.
2. Samuel Akoi-Wontumi accessing the effect of external factors on the gross margin of maize, rice, and soybean smallholder farmers in northern Ghana, 2023.
3. Kwesi Asare, Ph level and micronutrient analysis of some brands of bottled mineral water in Ghana, KNUST, Ghana, 2022.
4. Nan Kofi Owusu Afriyie, Assessing the status of scholarship beneficiaries in higher education institutions (HEsI): a case study of KNUST, KNUST, Ghana, 2021.
5. Charles Amoako, Temporal analysis of stillbirth rate in the upper east region of Ghana: 2015-2019, KNUST, Ghana, 2021.
6. Comfort Ofosua Darkwa, Assessing the effect of productivity enhancement programs on cocoa production in Abuakwa north municipality, KNUST, Ghana, 2021.
7. Otumi Christabel, Time series analysis and forecasting of enrolment of students in public senior high schools in the Volta Region of Ghana, KNUST, Ghana, 2021.
8. Adolf Adjei, An empirical study of attitude towards mobile insurance in Accra, KNUST, Ghana, 2019.
9. Rebecca Kumi, Estimating women’s unpaid care, KNUST, Ghana, 2018.
10. Kwame Owusu, Estimating Mortalities of Bacterial Meningitis, KNUST, Ghana, 2018.
11. Paul Butakor, A structural Equation Modelling of the relationship between teachers’ emotional intelligence, job satisfaction, professional identity, and work engagement, KNUST, Ghana, 2018.
12. Elvis Agyei Obeng, A predictive model for comorbidity of hypertension and diabetes, KNUST, Ghana, 2017.
13. Edith Mensah, Effect(s) of some selected amendments and grain variety on grain yield and plant height using MANOVA, KNUST, Ghana, 2017.
14. Robert D. Tambil, Survival Analysis of Microfinance; Sika Plan project as a case study, KNUST, Ghana, 2017.
15. Paul Butakor, A structural Equation Modelling of the relationship between teachers’ emotional intelligence, job satisfaction, professional identity, and work engagement, KNUST, Ghana, 2018.

**MSC INDUSTRIAL MATHEMATICS**

1. Alexander Naah, Markov Models of Rainfall data in the Ashanti region of Ghana (1993 – 2014), KNUST, Ghana, 2017.
2. Franklin Adu Gyamfi, Credit analysis using Logistic Regression: A Case Study Of Ahafo Ano Premier Rural Bank, KNUST, Ghana, 2016.
3. Carl Ayitey Ayayee-Adade, A three-state discrete-time Markov model of malaria dynamics in Ghana, KNUST, Ghana, 2017.

**MBA LOGISTICS AND SUPPLY CHAIN MANAGEMENT**

1. Kpelle Moses, Service Quality in National Health Insurance Scheme Healthcare: A case study of WA Municipal National Health Insurance Scheme in the Upper West Region of Ghana., KNUST, Ghana, 2013.
2. Godfred Owusu Benpah, Importance of Supplier Relationship Management to the Manufacturing Sector of Ghana: Case Study – Eastern Region, KNUST, Ghana, 2013.
3. Ansere Benedict, An Assessment of Inbound Supply Management in Basic Schools in Ghana: A Case Study of KNUST basic Schools., KNUST, Ghana, 2013.

**More than 70 BSC Projects**

#### **Preparation and Prioritization**

My daily schedule is always prioritised to allot and manage my available time effectively. I also ensure that my teaching is informed by continuous research.

#### **Time Management**

I practice effective time management to synergise my schedules and obligations appropriately.

#### **Responsiveness to change**

Change is one of the events that human nature resists. I have been able to cope with changes in my career. I have adapted my career to rapid changes in my domain and worked/undertaken research at different institutions in different countries (Nigeria, Kenya, Ghana and Spain). This has helped improve my perspective in life and made me more accommodating.

#### **Work-Life Management**

Raising a young family and simultaneously building a career away from one’s home country comes with peculiar challenges. I have successfully managed both facets of my life without significant complications.

## RESEARCH GOVERNANCE AND ORGANIZATION

### E1. Professional Conduct

In my career, I have worked assiduously to observe professional ethics and maintain high work standards, which have kept my job unscathed by any form of reproach or scandal.

### E2. Finance, Funding and Resources

#### **Income and funding generation**

Sourcing for funding and financial income for the University has been integral to my work at KNUST. This has been consistent over the years of engagement.

##### **Research, Travel And Collaboration Grants**

|  |  |  |  |
| --- | --- | --- | --- |
| GHC 74,000 | USD 144,350 | €869,600 | Reais 7,800 |

2023 KNUST travel grant **(GHC 10,000)** to attend the 64th International Statistical Institute World Statistics Congress, 15th to 20th July 2023, Ottawa, Canada.

2022 Co-PI and resource person at the Summer School on Application of Biomathematics and Biostatistics on Genomics and Epidemiology, at Eldoret, Kenya, from 12th to 24th March 2023. Project funded by Volkswagen Foundation (**€86,000**).

2022 International Biometric Society Travel grant (**USD 1,900**) to attend the 31st  International Biometric Conference, 10th -15th July 2022 at Riga, Latvia.

2022 LISA 2020 grant (**USD 35,000**) to host the Global LISA Sustainability Symposium at KNUST from 01 to 05 May 2022.

2021 Co-PI, Technical University of Munich Global Incentive Fund 2021 (**€**10,000) for faculty Exchange in collaboration with Prof Aurelien Tellier and Prof Olivier Pamen.

2020 International Statistical Institute (ISI) **USD 8,300** grant for KNUST-LISA Regional Symposium and World Statistics Day, October 2020.

2020 Transforming Evidence to Action Capacity in Higher Education
(TEACH) Fund of Eleven Thousand US Dollars (**USD 11,000**) for staff
Students‘ capacity building, in collaboration with the Regional Transport
Research and Education Centre, Kumasi (TRECK); July 2020 to June 2021.

2019 Travel grant of USD 3,000 to attend LISA 2020 Symposium and the International Statistical Institute (ISI) 62nd WorldStatistics Congress, August 18 – 23, 2019, Kuala Lumpur, Malaysia.

2019Travel Grantto attend Dialogue on Innovative Higher Education Strategies (DIES-DAAD) workshop on “Navigating Women’s Career in Higher Education”, 10 – 12 April 2019 at Koforidua.

2019Lead facilitator KNUST-LISA **USD 75,000** Building Capacity of Female Scientists in Data Analysis for Decision making and Strategic planning USAID/University of Colorado Boulder, USA.

2019CAL BANKFour Thousand Ghana Cedis **(Gh₵ 4,000)** Grantfor WiSTEM-KNUST 2019 Girls Camp.

2019Vodafone Twenty-five Thousand Ghana Cedis **(Gh₵ 25,000)** Grantfor2019 KNUST-WiSTEMGh Senior High School Girls’ STEM Camp, July 19-24, 2019.

2018VodafoneThirty Thousand Ghana Cedis **(Gh₵ 30,000)** Grantfor the launch of WiSTEMGh.

2018Institute of Mathematical Sciences (ICMAT), Spain, **Travel Grant** of One thousand Two hundred Euros (**€**1,200) to attend XXIX International Biometric Conference (IBC2018) in Barcelona, Spain from 8-13 July 2018.

2018International Mathematics UnionOpen Arms travel grant to attend the International Congress of Mathematicians (ICM 2018) in Rio De Janeiro Seven Thousand Eight Hundred Reais (**7,800 Reais**).

2018International Mathematics Union Centre for Developing Countries (CDC**) Visiting Lecturer’s Grant** for the visit of Prof Fabrizio Ruggeri to teach postgraduate statistics courses in the Department of Mathematics from March to April 2019. Prof Ruggeri is the Research Director at the National Research Centre (IMATI-CNR) in Milan, Italy.

2017Mujeres Por Africa/Institute of Mathematical Sciences six months research award Twenty Thousand Euros(**€20,000)** utilised in 2017**.**

2017 African European Mediterranean Academies for Science Education (AEMASE), Travel Grant of Two thousand four hundred (**€**2,400) to attend the AEMASE III conference in Paris, France, October 3-5, 2017.

2017Institute of Mathematical Sciences (ICMAT), Spain, Travel Grant to attend Applied Bayesian School (ABS17), Villa del Grumello, Como (Italy), 19 – 23 June 2017.

2017 Participation and Travel Fees: 5Th workshop on games and decisions in risk and reliability. GDRR 2017 at the Academy of Sciences, Madrid, Spain, 7-9 June, 2017.

2016OWSD Travel Grantto attend the Fifth General Assembly and International Conference of the Organization for Women in Science and Technology for the Developing World (OWSD), Kuwait, May 16-19, 2016.

2013 Co-PI and Initiator of a postgraduate research grant in reservoir simulation awarded by Petroleum Geo-Services (PGS) and Norwegian Academy of Science and letters, Seven Hundred and Fifty Thousand Euros **(€750,000),** implemented by National Institute of Mathematical Sciences (NIMS)**.**

2012 Facilitator of PhD grant by the African Mathematics Millennium Science Initiative to 3 awardees of the Department of Mathematics: Nana Kena Frempong, Derrick Asamoah Owusu, and Elikem Yaw Ayekple, Three Thousand Seven Hundred and Fifty US Dollars **($ 3750).**

2012KNUST Travel Grant **(GHC 5,000)** to attend the 7th International Salford Analytics and Data Mining Conference, San Diego, California, United States, from May 23-25, 2012.

2011GTZ travel grant to attend the Biennial conference of the Sub Sahara Africa Network (SUSAN) of the International Biometric Society in Gaborone, Botswana.

2009Association of African Universities (AAU) Staff Exchange fellowship 2008/2009 – **(USD 3,000).**

2008 International Chair of Mathematical Physics travel grant to attend Workshop 5 on Contemporary Problems in Mathematical Physics (COMPROMAPH3). Training course/workshop organised by the International Chair of Mathematical Sciences, University of Calavi, Cotonou, Republic of Benin, 27th Oct– 8th Nov 2008 (Certificate of Attendance awarded).

2007 Third World Organization for Women in Science for Developing World one-year postgraduate Fellowship awardutilised at the School of Mathematics, University of Nairobi, Kenya 2007 - 2008**.**

2005 CTA Travel Grant to attend CTA-IBS sponsored 9th Scientific Conference of the Sub-Saharan Network of International Biometric Society with the theme ‘Linking Agriculture, Nutrition and Environment Through Biometry Towards Prosperity and Good Health’ held at the Ethiopian Agricultural Research Institute, Addis Ababa, Ethiopia, Dec 12th – 16th 2005.

 2005 Gordon Research Conference (GRC) Travel Grant **(USD1,500)** to participate in the GRC conference Statistics in Chemistry and Chemical Engineering, held at Mt Holyoke College, South Hadley, MA, USA. 17th – 22nd July 2005.

2004 Abdus Salam International Centre for Theoretical Physics (ICTP) Travel Grant to attend the Modelling in Life and Material Workshop on Modelling in Life, Material Science, and Technology. Organised by the Abdus Salam International Centre for Theoretical Physics and held at ICTP Trieste, Italy, 5th March-3rd April 2004.

2004 CTA-IBS Travel Grant **(USD 1 900)** to attend the XXIIND International Biometrics Conference (IBC 2004) in parallel with the Australian Statistical Conference (ASC 2004), held at the Convention Centre Cairns, Australia, 11-16 July 2004.

2003 International Biometric Society (IBS) travel grant to attend the IBS-sponsored Biennial Conference of Sub-Sahara Network of International Biometric Society (SUSAN 2003), held at the Biometrics Department of the University of Natal, Pietermaritzburg, South Africa 7th-11th July 2003.

2003 International Chair of Mathematical Physics travel grant to attend the third International Workshop on Contemporary Problems in Mathematical Physics (COMPROMAPH3). Training course/workshop organised by the International Chair of Mathematical Physics, University of Calavi, Cotonou, Republic of Benin, 1st – 8th Nov 2003.

#### **ii. Financial Management**

Financial prudence within the confines of KNUST financial procedures has been observed in all my financial operations.

## F. ENGAGEMENT, INFLUENCE AND IMPACT

###  F1. Working with others

#### **Team working**

I am an excellent listening team player. Able to quickly identify people’s strengths and weaknesses to optimise their performance in their areas of strength and help them develop capacity in identified areas of weaknesses for effective teamwork. I also joined the KNUST outreach team to Nigeria for student recruitment in 2018 as the College of Science Representative.

#### **People Management**

In the course of my career, I served as the pioneer Head of the Department of Statistics & Actuarial Science, KNUST, where I manage a 24-man academic staff team, three administrative staff, 29 support staff of Graduate Assistants and National Service personnel with a student population of 1,560. Before this appointment, I was the first female Head of the Department of Mathematics, KNUST, during which I managed 36 all-male academic staff, three administrative staff, six graduate assistants, 51 national service persons, and over 2,700 students. In addition to this, I served as the Vice Dean of the Faculty of Physical and Computational Science in 2019.

#### **Mentoring**

I have served as a student advisor since 2003, a member of the KNUST mentoring program for new staff recruitments, and mentoring other students and colleagues informally.

#### **Influence and Leadership**

My leadership roles within the university have involved my participation on several committees and culminated in my nomination for election as Pro Vice-Chancellor in August 2022.

##### **Membership of Statutory Committees in KNUST**

Jan 2021 – Date Member, College of Science Appointments and Promotion Committee.

April 2021 – Date Chairperson, KNUST Public Lectures Committee.

Sept 2020- Cognate member, College of Science Representative on College of Engineering Board.

Aug 2019 – Date Chairperson – Departmental Board, Department of Statistics & Actuarial Science, KNUST

Aug 2018 - 2019 Chairperson – Departmental Board, Mathematics Department, KNUST.

Aug 2018 – Date Member, College of Science Board, KNUST.

Aug 2018 – Date Member, Appointments and Promotions Sub-Committee, College of Science.

2018 to Date Member, KNUST Management Committee for students’ scholarship schemes.

2018 to Date Member, College of Science sub-committee on Appointments and Promotions.

2016 to Date Member of Faculty Board, Faculty of Physical and Computational Sciences, KNUST.

2015 to Date College of Science Representative on Students’ Financial Services Management Board, KNUST.

2008 to 2009 Chairperson, Newly created Department of Statistics Board, University of Agriculture, Abeokuta, Nigeria.

2008 to 2009 Member, College Board of Studies, College of Natural Sciences, University of Agriculture, Abeokuta, Nigeria.

2008 to 2009 Member, University Postgraduate Board, University of Agriculture, Abeokuta, Nigeria.

2008 to 2009 Member, Expanded Operations Management Advisory Team, University of Agriculture, Abeokuta, Nigeria.

2006 to 2009 Member, College of Natural Sciences Postgraduate Board, University of Agriculture, Abeokuta, Nigeria.

2006 to 2009 Postgraduate Coordinator, Department of Statistics, University of Agriculture, Abeokuta, Nigeria.

2003 to 2009 Member, College Board, College of Natural Sciences, University of Agriculture, Abeokuta, Nigeria.

##### **Professionally Related Experience**

May 2021 - Chairperson, KNUST Public Lecture Committee.

Nov 2020 - Lead Policy Champion, KNUST Policy awareness and implementation committee.

Jan 2020 - Chairperson, College of Science Career Guidance and Counselling Committee, KNUST.

2018 to Date Coordinator and protagonist, KNUST Laboratory for Interdisciplinary Statistical Analysis (KNUST-LISA) in collaboration with the LISA 2020 project of the University of Colorado Boulder.

2018 to Date Member, KNUST Management Committee for students’ scholarship schemes.

2018 College of Science Representative, University outreach to Nigeria.

Mar 2018 Chairperson, Jubilee Durbar and Awards night committee, Africa Hall.

2018 Chairperson, Department of Mathematics Committee for creating a new Department.

2018 Chairperson, Department of Mathematics BSc Statistics project defence panel.

2018 Chairperson, Committee for PhD Mathematical Statistics Accreditation.

2018 Member, Committee on Research Design and Implementation in College of Science.

2018 Resource person, Biostatistics, School of Public Health, KNUST.

2018 Member, Committee to develop field Epidemiology and Applied Biostatistics curriculum, School of Public Health, KNUST.

2017 Developer, BSc Statistics with Economics curriculum.

2017 to 2019 Chairman, Department of Mathematics Grants and Proposals Committee.

2017 Chairman, Proposal Review Committee, KESSBEN College, Kumasi.

2017 Africa Hall Fellow.

2016 to Date Member of Faculty Board, Faculty of Physical and Computational Sciences, KNUST.

2016 to 2019 Member, Outreach Committee, Department of Mathematics.

2016 to 2017 IDL Coordinator for the Department of Mathematics.

2016 Resource person for a meeting of female students with female senior members.

2016 Chairperson, Department of Mathematics BSc Statistics project defence panel.

2016 Chairperson, Committee to develop Ph.D. Comprehensive Examinations Guidelines for the Department of Mathematics.

2016 Chairperson, Committee to interview MPhil Mathematical Statistics applicants.

2016 Member, Ph.D. Applicants interview panel, Department of Mathematics.

2016 External Examiner, WASCAL West African Service Centres for Advanced Statistics and Geostatistics.

2016 Member of the College Committee to investigate alleged irregularities in CHEM 169 marks for Petrochemical Engineering I in the Department of Chemical Engineering.

2015 Chairman, Committee on Best Performing Students of Mathematics Department.

2015 to 2021 College of Science Representative on Students’ Financial Services Management Board, KNUST.

2015 Member, college of Science panel for KNUST Excellence awards.

2015 Resource person for a College of Science meeting with international students.

2014 to 2021 Chairman, Committee for College of Science Students’ Achievement Programme (CoSSAP).

2014 to 2018 External Examiner, Department of Mathematics and Statistics,

2023- University of Energy and Natural Resources, Sunyani, Ghana.

2014 to Date Resource person and internal examiner, WASCAL Climate Change and Land Use, Department of Civil Engineering, KNUST.

2014 Chairperson, Committee to review MPhil Mathematical Statistics syllabus.

2013 to 2014 Director Academic programmes, National Institute of Mathematical Sciences.

2012 External Examiner, MPhil Statistics, University of Cape Coast.

2011 to 2013 University Council Member, Wisconsin University College, Ghana.

2009 to 2019 Students’ adviser, Department of Mathematics, KNUST.

2009 Association of African Universities staff exchange fellowship; 2009

Utilized at the Department of Applied Mathematics, UDS.

2008 to 2009 Visiting lecturer/postdoctoral fellow, School of Mathematics,

University of Nairobi, Nairobi, Kenya; 2007-2008.

#### **Equality and Diversity**

As a researcher, I continue to use my acquired experience to provide appropriate support systems for all students and staff to feel equal in all ramifications without recourse to color or creed.

## HOBBIES

Reading, gardening, watching documentaries, traveling, and cooking.

##  REFEREES

Prof Sagary Nokoe Prof Ibok Oduro

Professor of Biometrics Professor of Postharvest Technology

Department of Mathematics Former Provost of the College of Science

Catholic University College Department of Food Science and Technology

Sunyani, Ghana KNUST, Ghana

Email: nokoebiomaths@gmail.com Email: ibok.oduro@gmail.com

Mobile:+233 241580800 Mobile: +233 24488315

Prof. Michael O Ozoje

Professor of Statistical Genetics

Dept Animal Breeding and Genetics

Federal University of Agriculture Abeokuta Nigeria

Email: ozojemo@funaab.edu.ng

Mobile: +2348037163501