

CURRICULUM VITAE

NAME DR. AGGREY ADEM

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CAREER PROFILE

To contribute to teaching, learning and application of statistics through multi-disciplinary research and innovation at all levels of tertiary education and offer consultancy services in the field of statistical Analysis and modeling. I'm seasoned statistician with over 14 years experience in application of statistical tools in banking, health, business and education sectors.

KEY COMPETENCY	I'm very pro efficient in a number of statistical software namely SPSS, S+, R, STATA and Excel. I have vast knowledge in design of questionnaires and data collection, design and analysis of experiment, design and analysis of sample surveys, custom tailored statistical model building, general data analysis and interpretation and reporting research results.
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EDUCATION		
Institution	Dates	Qualifications
Jomo Kenyatta University of Agriculture and Technology	JAN 2011-JULY 2015	Doctor of Philosophy in Applied Statistics Thesis title: <i>Modeling Probability of Loan Defaults in Commercial Banks in Kenya</i>
Kenyatta University	September 2004-July 2006	Master of Science in Mathematics (Statistics)
Kenyatta University	September 1999-August 2002	Bachelor of Education Arts, Second class Honors upper division
Dandora Secondary School	Jan 1994-November 1997	Kenya Certificate of Secondary Education, B

EMPLOYMENT		
Employer and dates	Position	Duties and Key achievements
Technical University of Mombasa	Lecturer, Department of Mathematics and Physics	<ul style="list-style-type: none"> i. Teaching and examination of under graduate students ii. Carry out academic research that integrates the needs of the community iii. Development of market oriented academic programs iv. Generate proposals that can win grants for the university v. Supervision of post graduate students vi. Mentoring of students vii. Initiate and participate in corporate social investment activities
Technical University of Mombasa 1 st August 2015 to 31 st Janaury 2018	Director, Technical University of Mombasa Enterprises Limited (TUMEL)	<ul style="list-style-type: none"> i. Generate funds for the university by identifying business opportunities. ii. drawing plans for investment and mobilizing resources for investment projects iii. Research and identifies new government, corporate, foundations and private funding prospects. iv. Using knowledge of the market and competitors, identify and develop the company's unique selling propositions and differentiators.
Technical University of Mombasa P O BOX 90420-80100	Lecturer, Department of Mathematics and Physics	<ul style="list-style-type: none"> viii. Teaching and examination of under graduate students ix. Carry out academic research that integrates the needs of the community

1 st August 2015 to date		<ul style="list-style-type: none"> x. Development of market oriented academic programs xi. Generate proposals that can win grants for the university xii. Supervision of post graduate students xiii. Mentoring of students xiv. Initiate and participate in corporate social investment activities
<p>Technical University of Mombasa</p> <p>P O BOX 90420-80100</p> <p>1st January 2012 to 31st July 2015</p>	Assistant Lecturer Department of Mathematics and Physics	<ul style="list-style-type: none"> i. Teaching and examination of under graduate students ii. Carry out academic research that integrates the needs of the community iii. Development of market oriented academic programs iv. Generate proposals that can win grants for the university v. Mentoring of students <p>Initiate and participate in corporate social investment activities</p>
<p>Barclays Bank of Kenya</p> <p>P O BOX 30120 -00100 Nairobi</p> <p>15th October 2010-31st December 2011</p>	Credit Risk Policy Analyst	<ul style="list-style-type: none"> i. monitoring performance of non secured portfolio loans book ii. measure the performance of non secured portfolio loans book against set triggers iii. advise the business on pricing and packaging of the loans product iv. research on the market trends and competitors' information and performance v. Statistical extraction, analysis and presentation of monthly and ad hoc reports. vi. Initiate and participate in social corporate investment activities
<p>Barclays Bank of Kenya</p> <p>P O BOX 30120 -00100 Nairobi</p> <p>2nd May 2009-14th October 2010</p>	Debit Fraud Analyst	<ul style="list-style-type: none"> i. Identify and pick fraudulent transactions done using debit cards ii. Advise the business on the emerging fraud techniques iii. Train customers and point of sale outlet users on ways of

		iv. picking fraudsters Extract fraud related report, analyses and advise the business v. Initiate and participate in social corporate investment activities
Barclays Bank of Kenya P O BOX 30120 -00100 Nairobi October2007- May 2009	Operation Performance Analyst	i. Extract data and prepare reports on staff performance ii. Coordinate preparation of management information pack across different operation centers iii. Prepare annual budgets iv. Initiate effective cost management measures v. Initiate and participate in social corporate investment activities
Barclays Bank of Kenya P O BOX 30120 -00100 Nairobi 15 th December 2006- October 2007	Management information analyst	i. Extract and process management information. ii. Advise management on performance of staff iii. Initiate and participate in social corporate investment activities

Professional Bodies Memberships	I'm a member of the following Statistical bodies i. Kenya National Statistical Society (currently the Secretary General) ii. International Biometric Society
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Curriculum Development	I have been involved in the development of the following academic programs	
	Academic Program	Institution
	Bachelor of Science in Mathematics and computer science	Technical University of Mombasa
	Bachelor of science in Statistics and computer Science	
	Bachelor of Technology in Renewable Energy	
	Bachelor of Technology in Applied Physics	
	Bachelor of Medicine	
	Master of science in Applied Statistics	Pwani University
	Bachelor of science in Maths and Finance	
	Doctor of Philosophy in Statistics	
	Bachelor of Science in Mathematics	Pwani University
	Master of Science in Statistics	

Other Academic Engagements	<p>I have been an external examiner of post graduate thesis at the following Universities</p> <ul style="list-style-type: none"> i. Jomo Kenyatta University of Agriculture and Technology Mombasa Campus ii. Pwani University
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Workshops and Seminars Attended	Workshop	Venue	Sponsor	Duration
	Proposal writing	Technical University of Mombasa	DAAD	Three days
	How to use Demographic Health Survey Data	Sarova White Sands Hotel	USAID	Five days

STUDENT SUPERVISION	I have supervised 25 undergraduate students and the following post graduate students			
	Student Name	Research topic	Level	Status
	Joshua Kailong	Disclosure of HIV sero-status among people living with HIV and accessing treatment and care at Mombasa county referral hospital, Kenya	MSC	Graduated
	Josiah Kyalo Mutuku	Effects of M-pesa adoption on financial performance of small and medium enterprises in Mombasa County	MSC	Graduated
	Solomon Mutava	An inclusive efficient and cross validated logistic regression model	MSC	Graduated
	Florence Wambura	A comparative	MSC	Graduated

		study of Kernel selection using various bandwidth selection methods		
	David Nganga	Robust Poisson regression verses logistic analysis for common binary outcome	MSC	Thesis compilation
	Sammy Fondo	Modeling of petroleum prices in using ARIMA and VAR models	MSC	Thesis compilation
	Beryl Ojwang	Health service barriers to HIV testing and counseling among pregnant women attending Antenatal Clinic in Mombasa County.	MSC	Data collection stage
	Agnes Tsuma	Influence of financial determinants on financial performance of commercial banks	PhD	The proposal is ready for presentation
	Peter Murage	Optimal threshold determination for the maximum product of spacing methodology with ties for extreme events	PhD	Data collection stage
	Clarkson Deche	The effect of occupational internal fraud on service delivery of financial	PhD	The proposal is ready for presentation

		performance of state owned corporations in kenya		
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Professional trainings conducted	Course	Group trained	Duration	Venue
	Advanced data analysis using SPSS	Msc students of JKUAT Mombasa Campus	Two days	Kiziwi Tourism and Hospitality Centre
	Analysis of health data using SPSS	Msc Public health students of JKUAT Mombasa Campus	Two days	
	Statistical model building in R	Msc Applied Statistics students of Technical University of Mombasa	Two days	
	Using Econometrics Models in SPSS	PhD students of JKUAT Mombasa Campus	Two days	
	Survey Design	Staff of port management Association of Eastern and Southern Africa (PMAESA)	One day	PMAESA Conference room

Consultancy Engagement	Firm	Task	Sponsor	Year	Role
	Notswago Consultant	Compendiums of best Practices among Small and Medium Industries in Kenya	FKE	2013	Statistician
	TUMEL	Audit on Casual Staff Head Count	County Government of Kilifi	2016	Statistician
	TUMEL	Tariff Review	Mombasa Water and	2016	Statistician

			Sewerage Company		
	Dream Chasers Solution	Customer satisfaction Survey	Kenya Ferry	2017	Statistician
	Verax Consultancy	Evaluation of Bwiti Resettlement Plan	Base Titanium	2018	Statistician
	Verax Consultancy	End line Survey for project of improvement of water supply system in Chwele	Korean International Cooperation Agency (KOICA)	2018	Statistician
	Verax Consultancy	Health education for the project of improvement of water supply system in Chwele	Korean International Cooperation Agency (KOICA)	2018	Statistician

List of Publications

- i. Kailong, J., **Adem, A.**, and Orago, A., (2019). Level of perception of HIV sero status disclosure among people living with HIV in Mombasa County. *Journal of Medical Case Reports and Reviews Public* **2(8)** 342-353
- ii. Kimari, F., **Adem, A.**, and Kiti, L. (2019) Efficiency of various Bandwidth Selection Methods across Different Kernels. *IORS Journal Mathematics*. **15(3)**, 55-62
- iii. Mutuku, J., **Adem, A.**, and Muthara, M. (2019). Effects of M-pesa adoption on financial performance of small and medium enterprises in Mombasa County. *International Journal of Social Sciences and Humanities Research* **7(2)**, 293-301
- iv. Gichere, F., **Adem, A.**, and Adenya, R., (2018). Determining the mean differences in students' performance based on type of accommodation. *International Journal of Education and Research*
- v. Gikundi, D., **Adem, A.**, and Munywoki, M, (2018). Evaluation of efficiency of nyumba kumi initiative in combating insecurity in Mombasa County. *International Journal of Academics and Research* **1(1)** 5-12
- vi. Kailong, J., Orago, A., and **Adem, A.**, (2017). Disclosure of HIV sero status among people living with HIV in Mombasa county Referral Hospital Kenya. *Research Journal of Public Health* **3** 20-31

- vii. Chilimo, W., **Adem, A.**, Otieno, W., and Maina, W (2017). Adoption of Open access publishing by academic researchers in Kenya. *Journal of Scholarly Publishing* 49(1)
- viii. Mutava, S., Kiti, A., and **Adem, A.** (2017) Impact of Automatic Backward Model Selection Criterion on the Bias of the Parameters in Logistic Regression Model. *IOSR Journal of Mathematics* **13** (4)
- ix. Jeza, T., Chen, J., Lian, Z., **Adem, A.**, and Wu, X. (2017). Augments Rapamycin in Expansion of Alpha Fetoprotein Antigen specific stem cell like memory T cells in Vitro. *Pan African Medical Journal* **27**
- x. Chogo, C., Idua, M., Banafa, A., **Adem, A.** (2016). Factors affecting procurement law compliance in public secondary schools in Kenya. *Imperial Journal of Inter disciplinary Research* **2(11)**
- xi. Ochola, J., Idua, M., Kilungu, J., **Adem, A.** (2016). The effects of Ethical Sourcing on Organization performance in the energy sector. *Imperial Journal of Inter disciplinary Research* **vol2(11)**
- xii. Kipruto H., Mung'atu J, Ogila K., **Adem, A.**, Mwalili , Masini, E., and Kibuchi, E. (2015). Spatial Temporal Modelling of Tuberculosis in Kenya Using Small Area Estimation; *International Journal of Science and Research*
- xiii. Kipruto, H., Mung'atu, J, Ogila K., **Adem, A.**, Mwalili , Masini, E., and Kibuchi, E. (2015). An Application of Deterministic and Stochastic Processes to Model Evolving Epidemiology of Tuberculosis in Kenya; *International Journal of Science and Research*
- xiv. Kipruto H., Mung'atu J, Ogila K., **Adem, A.**, Mwalili , Masini, E., and Kibuchi, E. (2015). The epidemiology of tuberculosis in Kenya, a high TB/HIV burden country (2000-2013) ; *International Journal of Public Health and Epidemiology Research* **1(1)**
- xv. **Adem, A.**, Gichuhi, A., and Otieno, R. (2014) Classification rate : Non parametric verses Parametric model using binary data; *JAGST* **1**
- xvi. **Adem, A.**, Gichuhi, A., and Otieno, R. (2012) Parametric modelling of probability of bank loan default in Kenya; *JAGST* **1**
- xvii. **Adem, A.** (2012). *A monogram on Non parametric optimal estimation of the regression function*; Lap Lambert Academic Publishing

CURRENT RESEARCH ENGAGEMENT

Anti microbial and immunomodulatory effects of acacia Rovumae and moringa oloifera extracts on selected diarrheagenic microbes. Researchers Dr. Jeza Tunje, Dr. Aggrey Adem and Mr. Ali Kanga

Community Involvements:

- Mentor at Dandora Secondary School and Highridge Secondary School
- With the help of Barclays, I sponsored 15 students in fees payment at Dandora secondary School
- BOG member at Highridge Secondary school for two terms (2011-2015)

- BOG member at Dandora Secondary school for one term (2010-2013)

REFERENCES

1. Prof. Anthony Waititu
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Kenyatta University,

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2. Prof. Romanus Odhiambo
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