

RICHMOND'S CURRICULUM VITAE

PERSONAL DETAILS:

Name: Richmond Essieku

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Official Language | English

ABOUT ME:

Endowed with strong ability to work in a team with high motivation to find and solve practical challenging problems others cannot. I possess strategic, tactical, and entrepreneurial leadership quality and able to apply data analytics to solve complicated problems, in addition to using high communication standards to build productive interpersonal relationship. Committed and eager to learn and assimilate new work procedures and apply them. Highly efficient and methodical with a good eye for detail with a proactive approach to performance and data accuracy. I have a genuine interest in data science, mathematics, statistics, applied economics, and their application in real life problems.

EDUCATIONAL PROFILE:

1	Institution	Texas Tech University (TTU), Texas - United States Department of Economics
	Field of Study	PhD in Economics
	Duration	January 2022 to Date
	Specialization	Hoping: Health Economics, Technology Economics, and Big Data Analytics.

2	Institution	University of Texas Rio Grande Valley (UTRGV), Texas - United States School of Mathematical and Statistical Science
	Field of Study	Master of Applied Statistics and Data Science
	Duration	January 2021 to August 2022
	Major	Data Science, Applied Statistics, and Mathematics.

3	Institution	Xiamen University, Xiamen - China WISE/School of Economics
	Field of Study	Master of Financial Engineering
	Duration	August 2017 to July 2019

Major Derivatives, Econometrics, Financial Economics, and microeconomics.

4 Institution University of Cape Coast, Cape Coast - Ghana
Department of Mathematics and Statistics

Field of Study Bachelor of Science in Mathematics and Economics

Duration August 2012 to May 2016

Major Mathematics and Economics.

SKILLS:

- Knowledgeable in Neural Network/Deep Learning Algorithms, and machine learning algorithms.
- Knowledgeable in R and Python Programming, and software applications like SAS and STATA.
- Solid statistical and data analytical skills, including descriptive statistics and predictive modelling experience.
- Research and Writing skills.
- Knowledge in Database applications like SQL Server.
- Excellent leadership, communication, and organizational skills.
- Proven ability to work both independently, and in a team environment.

TRAINING AND CERTIFICATES:

- CITI PROGRAM: Training in human subject research (Social Behavioural Research Investigator).
- Data Analytics - Mining and Analysis of Big Data – Alison.
- Data, Databases and Mining – Alison.
- The STATA OMNIBUS: Regression and Modelling with STATA via StataChina.Github.
- Introduction to Python via 365Datascience.com.
- Intermediate and Advance R programming – datacamp.
- R-Markdown – datacamp.
- Intermediate R, Intermediate Regression in R, and Intermediate R for Finance – datacamp.
- Introduction to Data Visualization with ggplot2 – datacamp.
- Equity Valuation in R, and Bond Valuation and Analysis in R – datacamp.
- Introduction to R, Introduction to Regression in R, and Introduction R for Finance – datacamp.

MEETINGS, CONFERENCE PRESENTATION, AND POSTERS:

- 9th Annual Meeting and Conference – Obesity Research Institute (Poster Presentation), 2024.
- 2024 College of Sciences Annual Research Conference – University of Texas Rio Grande Valley.

- Attended: 2nd Annual West Texas Health Disparities Research Symposium – Texas Tech University, Lubbock – Texas, 2024.
- International Data Engineering and Science Association (IDEAS) 2023 Global Conference. Virtual OR Dallas – USA. November 2023.
- Speaker: Oral Presentation - 4th Edition of World Obesity and Weight Management Congress. Maryland – USA. October 2024.
- Abstract Accepted: Oral Presentation – 7th International Conference on Obesity and Chronic Disease. Zurich – Switzerland. November 2024
- Midwest Macroeconomics Conference, Texas - US. November 2023.
- Oral Presented– 6th International Conference on Obesity and Diet Imbalance. Rome – Italy. December 2023.
- 8th Annual Meeting and Conference – Obesity Research Institute (Poster Presentation), 2023.
- 22nd Texas Tech University Graduate Student Research Poster Presentation, 2023.
- University of Texas Rio Grande Valley Neural Network/Deep Learning Poster Presentation.
- Kaggle Data – Mining Competition on Text Mining (Participated).

SCHOLARSHIPS AND AWARDS:

- Cash Prize – First Place, 22nd Texas Tech University Graduate Student Research Poster Presentation.
- First Place - Kaggle Data – Mining Competition (My team won over 11 competing teams).
- 2023 Dr. Rashid B. Al-Hmoud Scholarship in Economics for outstanding students.
- 2022-2027 TTU Economics Department graduate assistant scholarship.
- 2022-2027 Helen Devitt Jones Fellowship Grant.
- 2021 HEERF Texas (United State) Grant.
- 2021-2023 UTRGV's department of mathematics and statistics graduate assistant scholarship.
- 2017-2019 Chinese Government Council Scholarship.
- Dean's Award (2014)- School of Physical and Natural Sciences (University of Cape Coast).

SCHOOL & COMMUNITY MEMBERSHIP:

I have served in the following portfolios:

- A member of American Statistical Association (ASA)
- ADASci: Association of Data Scientists (A global professional body of data science & machine learning professionals)
- Obesity Research Institute (ORI).
- American Economic Association (AEA).
- A member of the Society of Industrial and Applied Mathematics (SIAM).
- Active member and a treasurer to the International Association of Optical Engineering (SPIE)- UTRGV Chapter-Texas, US.
- Mathematic and Statistical Students Association of Ghana (MASSAG).
- Association of Economics Students of Ghana (AES).

RESEARCH EXPERIENCE:

Proposed PhD Thesis Topic Working on:

- Efficacy of AI-Based Algorithms for Precision Obesity Detection through Genotype-Socioeconomic Interactions.

Book(s) Publication

- Essieku, R., Baffoe, H., Akatu, M. K., Bosompim, P., & Ladzekpo, J. (2024). Machine Learning Feature Selection Techniques to Model the Elements of Cash Conversion Cycle and Other Covariates on Hospital Performance.

Recently Papers Published – 2023:

- Eshun S, Essieku R, Ladzekpo J (2023). Stability analyses on the effect of vaccination and contact tracing in monkeypox virus transmission, *J. Math. Comput. Sci.*, 13:8.
- Richmond Essieku, Solomon Eshun, Eric Ayamga, Prince Bosompim, James Ladzekpo, Makafui Komla Akatu, (2023). Modeling Cash Conversion Cycle on Hospital Performance with Machine Learning Feature Selection Techniques: Subset Selection and Shrinkage Methods. *International Journal of Scientific Research in Mathematical and Statistical Sciences*, 10(4), 14-22.
- Eshun S, Johnson A, Essieku R (2023). COVID-19 Tweets Sentiment Classification: A Deep Learning Model with Stacking Ensemble for Improved Performance. *International Journal of Scientific Research in Mathematical and Statistical Sciences*, 10(3), 1-8.

Working Papers:

- Machine Learning (ML) and Significance Analysis of Microarray (SAM) Based Methods for Predicting Obesity of Hypothalamic Pituitary Adrenal (HPA) axis function. In collaboration with my Project Supervisor and South Texas Diabetes & Obesity Institute.
- Epidemiological modelling of Type 2 Diabetes Mellitus Using Genetic Variations. In collaboration with South Texas Diabetes & Obesity Institute.

Other Published Papers:

- Adongo F.A., R. Essieku, J.A. Jr. Lewis, and J. Boamah, (2018), "Logistic Regression Analysis of Infant Mortality: Evidence from Ghana" *International journal of Scientific and Educational Research (IJSER)*. Vol. 2, No. 04; 2018.
- Adongo F.A., J.A. Jr. Lewis, R. Essieku, J. Boamah, and J.C. Chikelu (2018), "SARIMA Modeling of Inflation: The Case of Liberia" *Quest Journals: Journal of Research in Business and Management*. 6[2], 47-55.
- Boamah, J., Adongo, F. A., Essieku, R., Lewis Jr., (2018), Financial Depth, Gross Fixed Capital Formation and Economic Growth: Empirical Analysis of 18 Asian Economies. *International Journal of Scientific and Education Research* Vol. 2, No. 04.
- Undergraduate Thesis Topic: Determination of Optimum Weight of an Investment Portfolio Using Markowitz Model.

REVIEWING AND JUDGE EXPERIRNCE:

I have worked as a guest reviewer and completed fifteen professional reviews for the following scientific journals:

- Journal of Data Analysis and Information Processing (JDAIP) (ISSN Online: 2327-7203)
- Journal of Service Science and Management (ISSN Print: 1940-9893 ISSN Online: 1940-9907)
- iBusiness (ISSN Online: 2150-4083 ISSN Print: 2150-4075).

I have served as a judge at the following student research events:

- 23rd Texas Tech University Graduate Student Research Poster committee member – abstract selection and categorization.
- Served as a Judge: 3-Minute Thesis Competition (2023) – Texas Tech University Graduate School.
- Served as a Judge: 3-Minute Thesis Competition (2024) – Texas Tech University Graduate School.
- Served as a Judge: Art and Humanity Conference – Texas Tech University Graduate School, 2024.
- Served as a Judge: Art and Humanity Conference – Texas Tech University Graduate School, 2023.

WORK EXPERIENCE:

Graduate Teaching and Research Assistant, January 2021 to Date.

[Texas Tech University \(TTU\) - United States](#)

Work Description:

- Researching with my supervisor.
- Teaching and Conducting Tutorials.
- Grading assignments and doing other responsibilities.

[Math and Science Academy – The Valley, Texas-United States](#)

Work Description:

- Advising students in Career Path.
- Teaching and Conducting Tutorials in Mathematics (Pre-Calculus, Calculus I and II).

[University of Texas Rio Grande Valley \(UTRGV\), Texas-United States](#)

Work Description:

- Testing and evaluating new models build by students and supporting my research supervisor in statistical data analysis.
- Attending training on data cleansings, data visualization, and data analysis.
- Teaching and Conducting Tutorials in the following subject: College Algebra, Linear Algebra, Pre-Calculus, Calculus I and II, Statistics, Advance sampling, Probabilities, Differential equations.
- Grading assignments and doing other responsibilities in the mat lab.

Teaching and Research Assistant, July 2016 to August 2017, and August 2019 to December 2020

Regional Maritime University – Accra, Ghana

Work Description:

- Assisting final years' students in their final research dissertation by doing their data analysis and designing appropriate models for their project.
- Lecturing and conducting tutorials in Business Mathematics, Engineering Mathematics, Microeconomics & Macroeconomics, and Introductory Financial Accounting.
- Assisting lecturers in their various courses of instruction by: setting/drawing marking schemes for quizzes, grading and supervising quizzes and exams.

Junior Statistician and analyst (Internship), November 2015 to July 2016

Ghana Revenue Authority (Government Agency), Accra-Tema Ghana.

Work Description:

- Providing daily, weekly, and monthly statistical reports on daily revenue collection and operations.
- Retrieves, analyses and interprets data from various sources using statistical software programs.
- Assisted in auditing, calculating tax assessments, and collecting taxes from clients.
- Involved in data analysis, proposal writing and questionnaire design.

VOLUNTEER EXPERIRNCE:

- Volunteered at South Plains Food Bank in Lubbock, Texas, during the summer of 2023, assembling food packages to support community members in need.
- Volunteered at Literacy Lubbock (Dream Centre) during Summer 2024, teaching GED mathematics to high school students and adult learners.

REFERENCES:

Prof. George Yanev

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