

KASSIM TAWIAH

Curriculum Vitae

Current address: Department of Mathematics and Statistics, School of Sciences,
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Place and Date of Birth: Agona Swedru, Ghana| April 11, 1985.

Nationality: Ghanaian

Marital status: Married

Languages spoken/Written: English and Fante

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Teaching Philosophy: I endeavour to work with other faculty members to create a serene classroom environment to engage and collaborate with students to prepare them adequately and effectively to be mastery of current concepts and theories in statistics and its applications in the real world so that they can have enormous knowledge and skills to impact society.

Research Philosophy: I wish to engage other faculty members and researchers worldwide to handle data efficiently and develop new ideas and add up to existing ones in the area of biostatistics, mixed models, and overdispersed models, and impact society with the knowledge gained.

Key skill

Programming language in R and STATA

Education and Training:

Kwame Nkrumah University of Science and Technology, Kumasi
PhD Mathematical Statistics Candidate, September 2020

University of Ghana, Accra
Master of Philosophy Statistics, July 2015

University of Education, Winneba
Diploma in Education, August 2015

University of Cape Coast, Cape Coast
Bachelor of Science Mathematics and Statistics, May 2009

Swedru Senior High School, Agona Swedru
S.S.S.C.E General Science, August 2002

Career history:

University of Energy and Natural Resources, Sunyani
Dec. 2018 to Dec. 2020

Assistant Lecturer

University of Energy and Natural Resources, Sunyani
January, to date

Lecturer**Courses taught:****Second Semester 2018/2019**

STAT 060: Statistical Methods (2-groups, 6 credits)

ACTS 314: Research Methods in Demography and Actuary (3 credits)

STAT 088: Economics and Social Statistics (3 credits)

First Semester 2019/2020

STAT 100: Statistics I (3-groups, 9 credits)

STAT 063: Statistical Methods I (3 credits)

STAT 313/STAT 067: Research Methods (3 credits)

Second Semester 20 19/2020

STAT 064: Statistical Methods II (3 credits)

MAT 118: Linear Algebra for Scientist (3 credits)

STAT 060: Statistical Methods (2-groups, 6 credits)

ACTS 314: Research Methods in Demography and Actuary (3 credits)

STAT 088: Economics and Social Statistics (3 credits)

First Semester 2020/2021

STAT 100: Statistics I (3-groups, 9 credits)

STAT 063: Statistical Methods I (3 credits)

Second Semester 2020/2021

STAT 206: Statistical Estimation (2-groups, 6 credits)

STAT 204: Statistical Inference (2-groups, 6 credits)

STAT 088: Economics and Social Statistics (3 credits)

Service to UENR Community

Member/Secretary: Committee set to peruse the MPhil Applied Mathematics Curriculum and design NCTE format in line with NCTE guidelines0

Academic Tutor

Re-accreditation of Actuarial Science by NAB: Tasked to contact and compile all graduates who are on the field practicing after completing school

Served as a member of the School of Sciences laboratory management committee

Re-accreditation of Diploma Insurance and Diploma Statistics: A member of the team tasked to compile the documents for the re-accreditation.

Service to National

Invigilator: National Teaching Council Professional Examination for teachers, UENR-Center.

Team Leader/ Supervisor: Lot Quality Assurance Survey and Independent Monitoring of first round of MOPV2 Vaccination exercise in Tano South District, Ahafo Region, Ghana by the Ghana Health Service and World Health Organization

Project work supervision

2019/2020

1. Richard Socrates Adzesi and Raphael Wepiah Baba (2020). Neonatal mortality modeling: a zero-inflated models approach. Department of Mathematics and Statistics, University of energy and Natural Resources, Sunyani.

2020/2021

1. Automobile claim insurance modelling
2. Road traffic accident modelling
3. Neonatal mortality analysis

Workshops/Seminars Attended:

Growing together as a department, the role of each member, UENR. November 26, 2019

NVIDIA Deep Learning Institute: Fundamentals of Accelerated Computing with CUDA C/C++, UENR. October 29, 2019

Intellectual Property (IP) Workshop, UENR. September 20, 2019

SDF Grant Proposal Workshop, UENR. May, 2019

UENR-ACU Professional Development Interactive Seminar, UENR. Feb. 21, 2019

Good Assessment Practices in Higher Education: Improving Teaching and Learning, UENR. January 16-17, 2019.

Applications of Numerical Methods in Statistics in R, KNUST. October, 21-22, 2020.

Organization/Society Membership

Society for Conservation Biology, Ghana Chapter.

Member; 2014 to date

Mathematical Association of Ghana, Ghana.

Member; 2012 to date

Royal Statistical Society, UK.

Fellow; 2020 to date

International Biometric Society

Member; 2020 to date

Ghana Statistical Association

Member; 2020 to date

Publications

1. Iddrisu , A., Bukari, F. K., Opoku-Ameyaw, K., Afriyie, G. O., and **Tawiah, K.** (2020). Factors that determine the likelihood of giving birth to the first child within 10 months after marriage. *Journal of Pregnancy*, vol. 2020, Article ID 4675907, 12 pages, 2020. <https://doi.org/10.1155/2020/4675907>
2. Iddrisu, A., **Tawiah, K.**, Bukari, F. K., and Kumi, W. (2020). Frequentist and Bayesian Regression Approaches for Determining Risk Factors of Child Mortality in Ghana. *BioMed Research International*, vol. 2020, Article ID 8168479, 10 pages, 2020. <https://doi.org/10.1155/2020/8168479>

3. **Tawiah, K.**, Iddi, S., and Lotsi, A. (2020). On zero-inflated hierarchical Poisson models with application to maternal mortality data. *International Journal of Mathematics and Mathematical Sciences*, vol. 2020, Article ID 1407320, 8 pages, 2020.
<https://doi.org/10.1155/2020/1407320>
4. **Tawiah, K.**, Iddrisu, W. A., and Asosega, K. A. (2021). Zero-inflated time series modeling of COVID-19 death in Ghana. *Journal of Environmental and Public health*, vol. 2021, Article ID 5543977, 9 pages, <https://doi.org/10.1155/2021/5543977>

Conference Paper Presentations

1. **Tawiah, K.**, Iddi, S., and Lotsi, A. (2020). Zero-inflated models application to maternal mortality data. Third International Conference on Mathematics and Statistics, 2020 (AUS-ICMS'20), The American University of Sharjah, UAE. February 6-9, 2020.
2. **Tawiah, K.**, Iddi, S., and Lotsi, A. (2020). On zero-inflated hierarchical Poisson models with application to maternal mortality data. World Statistics Day and International Year of women in Statistics and Data Science Symposium, KNUST, Ghana. October 20, 2020.

Research Interest:

Biostatistics, mixed models, overdispersed models.

Professional Links

ResearchGate, Google scholar

Referees

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