

Patrick Osatohanmwen

Faculty of Economics and Management
Free University of Bolzano
Piazza Università, 1, 39100, Bolzano BZ, Italy
Patrick.Osatohanmwen@unibz.it

Education

Ph.D. in Industrial Mathematics

University Benin, Benin City, Nigeria — 2019

M.Sc. in Industrial Mathematics

University Benin, Benin City, Nigeria — 2016

B.Sc. in Mathematics & Economics

University Benin, Benin City, Nigeria — 2012

Academic Appointments

Research Assistant

Faculty of Economics and Management, Free University of Bolzano, Bolzano, Italy
January, 2024 – Present

Faculty Member

School of Science and Technology, Pan-Atlantic University, Lagos, Nigeria
October, 2021 – December, 2023

Faculty Member

Department of Statistics, University of Benin, Benin City, Nigeria
April, 2018 – September, 2021

Research Interests

- Statistical Modeling
- Data Science
- Econometrics
- Probability Theory
- Spatial Extreme Value Theory

Publications

Peer-Reviewed Journal Articles

- **Osatohanmwon, P.**, Oyegue, F.O. and Ogbonmwon, S.M. (2019). A New Member from the T-X Family of Distributions: The Gumbel-Burr XII distribution and its Properties. *Sankhya A*, Vol. 81, pp. 298 – 322. URL: <https://doi.org/10.1007/s13171-017-0110-x>
- **Osatohanmwon, P.**, Oyegue, F.O., Ajibade, B. and Ewere, F. (2020). A New Generalized Family of Distributions on the Unit Interval: The T – Kumaraswamy Family of Distributions. *Journal of Data Science*, Vol. 18 (2), pp. 219 – 237. URL: [https://doi.org/10.6339/JDS.202004_18\(2\).0001](https://doi.org/10.6339/JDS.202004_18(2).0001)
- **Osatohanmwon, P.**, Oyegue, F.O. and Ogbonmwon, S.M. (2020). The T – R {Y} power series family of probability distributions. *Journal of the Egyptian Mathematical Society*. Vol. 28, number 29. URL: <https://doi.org/10.1186/s42787-020-00083-7>
- **Osatohanmwon, P.**, Oyegue, F.O. and Ogbonmwon, S.M. (2022). The Weibull – Burr XII {log logistic} Poisson distribution. *Journal of Statistics and Management Systems*. Vol. 25(3) 549-584. URL: <https://doi.org/10.1080/09720510.2021.1917799>
- **Osatohanmwon, P.**, Efe-Eyefia, E., Oyegue, F.O, Osemwenkhae, J.E, Ogbonmwon, S.M and Afere, B.A. (2022). The exponentiated Gumbel-Weibull {log logistic} distribution with application to Nigeria’s COVID-19 infections data. *Annals of Data Science*. Vol. 9, pp. 909 – 943. URL: <https://doi.org/10.1007/s40745-022-00373-0>

Awards and Honors

- University of Benin Scholar Prize, University of Benin, 2011

Teaching Experience

Probability Distribution Theory [Undergraduate]

Department of Statistics, University of Benin
First Semester, 2018-2021

- The course includes topics on some discrete and continuous univariate probability distributions. Their moments and estimation techniques were also covered.

Sampling Theory and Quality Control [Undergraduate]

Department of Statistics, University of Benin
Second Semester, 2018-2021

- The course covers topics in sampling theory and statistical quality control. These topics include the meaning of sampling, types of sampling techniques and mathematical constructions of their mean and variance, the various types of control charts etc.

Mathematical Method [Undergraduate]

Department of Computer and Information Science, Pan-Atlantic University
First Semester, 2021-2023

- Topics covered include elementary algebra, differential and integral calculus, differential equations etc.

Linear Algebra [Undergraduate]

Department of Computer and Information Science, Pan-Atlantic University
Second Semester, 2021-2023

- Topics covered include matrix theory, vector space theory, linear transformation of vector spaces etc.

Foundational Mathematics for Data Science [Graduate]

Department of Computer and Information Science, Pan-Atlantic University
First Semester, 2022 – Present

- The course covers topics in algebra, linear algebra, calculus etc.

Statistical Method [Graduate]

Department of Computer and Information Science, Pan-Atlantic University
First Semester, 2022 – Present

- The course covers topics in exploratory data analysis, probability theory, statistical inference: parametric and non-parametric etc.

Professional Service

- Resource person at the Nigerian Statistical Association (NSA) National Post Graduate Workshop on Probability Distribution Theory – 2019.
- Resource person at the Nigerian Statistical Association (NSA) National Post Graduate Workshop on Modelling Statistical Dependence using Families of Copula – 2021
- Statistics Consultant With SIRAJ Nigeria Limited working on the project to develop the Edo Regional Development Master Plan and the Benin City Master Plan 2021 – 2022.

Conference/Seminar Presentations

- **Osatohanmwon, P.**, Oyegue, F.O. and Ogbonmwan, S.M., An Evaluation of Statistical Methods for Estimating Wind Speed Extremes, Statistics Research Group 3rd Biennial National Conference on Mathematical Statistics, Benin City, Nigeria, 2016
- **Osatohanmwon, P.**, Oyegue, F.O. and Ogbonmwan, S.M., A New Statistical Model for Extreme Wind Speed Frequency Analysis: The Gumbel-Burr XII distribution, International Conference for Applied Statistics and Development in Africa, Cotonou, Republic of Benin, 2016

- **Osatohanmwon, P.**, Advances on the Methods for Generating Continuous Univariate Distributions, 23rd Statistics Research Group (SRG) Quarterly seminar, Benin City, Nigeria, 2017
- **Osatohanmwon, P.**, Oyegue, F.O. and Ogbonmwon, S.M., The T – X Poisson Class of Probability Distributions, the 34th Annual Conference of the Nigerian Mathematical Society, Makurdi, Nigeria, 2017
- **Osatohanmwon, P.**, Oyegue, F.O. and Ogbonmwon, S.M., A New Generalized Family of Distributions on the Unit Interval: The T – Kumaraswamy Family of Distributions, the 42nd Annual Conference of the Nigerian Statistical Association, Awka, Nigeria, 2018
- **Osatohanmwon, P.**, and Ajibade, B.F., Statistical Assessment of Wind Energy Potential of South-Eastern Nigeria, the International Conference on Hydrocarbon Science and Technology, Effurun, Nigeria, 2019

Professional Memberships

- Nigerian Mathematical Society, Member, 2017 – Present

References

- F. Marta L. Di Lascio, Associate Professor, Faculty of Economics, Free University of Bolzano, Bolzano, Italy, Marta.DiLascio@unibz.it
- F.O. Oyegue, Professor, Department of Statistics, University of Benin, Benin City, Nigeria, francis.oyegue@uniben.edu
- William Muhwava, Chief, Demography and Social Statistics Section, African Centre for Statistics, United Nations Economic Commission for Africa, Addis Ababa, Ethiopia, muhawava@un.org
- Darlington Agholor, Dean, School of Science and Technology, Pan-Atlantic University, Lagos, Nigeria, dagholor@pau.edu.ng