

Curriculum Vitae

Ogunsola Oluseyi Enitan

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Professional Interests: Atmospheric Studies and Climate Change Monitoring

- ❖ Determination of Climate Change/Variability using Greenhouse Gases
- ❖ Effects of Greenhouse Gases Emissions on Climate Variability in the Tropics
- ❖ The use of Proxy Data in determining Climate Change
- ❖ The use of Biomass in Renewable Energy Generation
- ❖ GSM signal transmission/penetration in the atmosphere
- ❖ Effluent of greenhouse gases during oil flaring and exploration in Niger Delta

Skills

- ❖ Teaching, research and writing
- ❖ **Computer Skills:** Microsoft Word, Excel, Power Point, Origin

- ❖ September 1985 – December 1989: B.Sc. (Physics) at the University of Ibadan, Nigeria.

- ❖ November 1992 – September 1995: Post Graduate Diploma (Petroleum Engineering) at the University of Ibadan, Nigeria.
- ❖ October 1995 – November 1996: Master of Science (Petroleum Engineering) at the University of Ibadan, Nigeria.
- ❖ November 2002 – September 2004: Master of Science (Physics) University of Ibadan, Nigeria.
- ❖ September 2005 – March 2012: Doctor of Philosophy (Physics) at the University of Ibadan, Nigeria.

Work Experience

- ❖ October 2006 – May 2009: Teaching and Research at The Polytechnic Ibadan, Ibadan, Nigeria.
- ❖ June 2009 – Date: Teaching and Research at the University of Ibadan, Nigeria.

Current Functions

- ❖ Research, Teaching, and Supervision of Undergraduate and Postgraduate Students.

Professional Associations

- ❖ Graduate member, Nigerian Society of Engineers.
- ❖ Member, Nigerian Institute of Physics.

Articles that have already appeared in learned journals

1. Adeniyi, M.O., **Ogunsola, O.E.**, Nymphas, E.F. and Oladiran E.O. (2009). Food security measures during uncertain climatic conditions in Nigeria. *African Journal of Food, Agriculture, Nutrition and Development*, Vol. 9. No. 2: 652-677.
2. **Ogunsola, O.E.** and Oladiran, E.O. (2011). Models of Greenhouse Gas Concentrations Over Tropical Africa Using the Auto-Regressive Moving Average Approach. *Journal of Science Research*, Vol.10. No. 1:80-89
3. Adeniyi M.O. and **Ogunsola, O.E.** (2012). Assessment of the performance of The drag and bulk transfer method in estimating sensible and latent heat fluxes in a tropical station. *Theoretical and Applied Climatology* Vol. 107: 511-518.
4. **Ogunsola, O.E.** and Oladiran E.O. (2013). The Use of Greenhouse Gases as Climate Proxy Data in Interpreting Climatic Variability. *Atmospheric and Climate Sciences* Vol. 3: 6-10.
5. **Ogunsola, O.E.** and Oladiran E.O. (2014). Empirical Prediction of Temperature Anomalies over Tropical Pacific Ocean Using Greenhouse Gas Concentrations. *Journal of the Nigerian Association of Mathematical Physics* Vol. 28. No. 1: 281-294
6. **Ogunsola, O.E.** and Olowofoyeku S.T. (2015). An Ideal Gas Law Simulator for Atmospheric Gas Molecules. *Journal of the Nigerian Association of Mathematical Physics* Vol. 30: 203-208. (Nigeria) (Contribution: 80%).
7. **Ogunsola, O.E.** (2017). Studies of the Trends of Variation of CFCs' Concentrations in the Atmosphere and the Possible Impact of the Existing Protocols on it. *Journal of Meteorology and Climate Science* Vol. 15. No. 1: 27 – 35.
8. **Ogunsola, O.E.**, Bashiru, A.A. and Olubimo, I.O. (2017). Assessment of Occupational Noise Level Effect on Millers in Ibadan, Nigeria. *The African Review of Physics: Special Issue on Applied Physics in Africa 0011* Vol.12:96-107.
9. Ayokunnu, O.D., **Ogunsola, O.E.** and Adeniyi, J.O. (2018). The Low latitude Spread-F over the African and the Southern American sector during a low Solar Activity Period. *International Journal of Emerging Technology and Advanced Engineering* Vol. 8. No.3: 143-150.
10. **Ogunsola, O.E.**, Adeleke, O. and Aruna, A.T. (2018). Wood fuel analysis of some selected wood species within Ibadan. *IOP Conference Series: Earth and Environmental Science* Vol. 173. No. 012043: 1-17.
11. Ayokunnu, O.D., **Ogunsola, O.E.** and Adeniyi, J.O. (2018). Modeling of the Height of Occurrence of the Low Latitude FI Layer. *International Journal of Trend in Research arid Development* Vol. 5. No. 4: 129-132.

12. **Ogunsola, O.E.** and Osagiede, O. (2018). Wind Speed Analysis at Ikeja, Nigeria using the Conventional Probability Density Functions. *Journal of Engineering Studies and Research* Vol. 24. No. 3: 20-32.
13. **Ogunsola, O.E.**, Araromi, O.I. and Adeshina, O.A. (2018). Studies on Students' Awareness on Climate Change Education in Nigeria: A Case Study of the University of Ibadan. *Journal of Emerging Trends in Education Research and Policy Studies* Vol. 9. No.6: 251-257.
14. Njoku, E.I., **Ogunsola, O.E.** and Oladiran, E.O. (2019). The Influence of Atmospheric Parameters on Production and Distribution of Air Pollutants in Bayelsa: A State in the Niger Delta Region of Nigeria. *Atmospheric and Climate Sciences* Vol. 9: 159-171.
15. **Ogunsola, O.E.** and Yaya, O.S. (2019). Maximum and Minimum Temperatures in South-Western Nigeria: Time trends, Seasonality and Persistence. *IOP Conference Series: Journal of Physics* Vol. 1299. No. 012057: 1-10.
16. Ayokunnu, O.D., **Ogunsola, O.E.** and Dare, O.D. (2020). Modeling of Electron Density of the Equatorial F1 Layer in the Low Latitude Region. *Journal of Environment Protection and Sustainable Development*. Vol. 6. No. 3: 66-71.
17. Ayokunnu, O.D., Adeniy, J.O., **Ogunsola, O.E.** and Dare, O.D. (2020). Morphology of the Quiet Equatorial Ionospheric F2 Layer During a Low Solar Activity. *American Journal of Geophysics, Geochemistry and Geosystems* Vol. 6. No. 4: 132-137.
18. **Ogunsola, O.E.**, Adeleke, O. and Gbadamosi, I.A. (2021). Characterisation of Penetration Strength of GSM Signals (900MHZ) and their attenuations within some selected Buildings at the University of Ibadan, *IOP Conference Series: Earth and Environmental Science* Vol. 655. No. 012035: 1-12.
19. Adegboye, O.J. and **Ogunsola, O.E.** (2021). Drought Identification through Climatic Variables. *Open Access Library Journal* Vol. 8. No.3: 1-19.
20. **Ogunsola, O.E.** (2022). Nitrous oxide variability and predictability in the tropics using statistical analysis, *IOP Conference Series: Earth and Environmental Sciences* Vol. 993. No. 012010: 1-9.
21. **Ogunsola, O.E.**, Adeleke, O. and Komolafe D.A. (2022). Assessment of Diurnal Signal Strength Penetration of Mobile Signals through ceiling Materials, *University of Ibadan Journal of Science and Logics in ICT Research* Vol. 8. No. 1: 69-80.
22. **Ogunsola, O.E.**, Dilau, K.A. and Ayokunnu, O.D. (2022). Temperature Variability Comparison Using Mann-Kendall Test. *Journal of Science and Technology* Vol. 14. No. 1: 29-36.
23. **Ogunsola, O.E.**, Njoku, E.I. and Ayokunnu, O.D. (2023). Industrial Air Pollutants Investigation in the Niger Delta Region of Nigeria. *Open Access Library Journal* Vol. 10. No. 7: 1-15.

24. Yaya, O.S., Adesina, O.A., Olayinka, H.A., **Ogunsola, O.E.** and Gil-Alana, L.A. (2023). Long Memory Cointegration in the Analysis of Maximum, Minimum and Range Temperatures in Africa: Implications for Climate Change. *Atmosphere* Vol. 14: 1299.
25. **Ogunsola, O.E.**, Dilau, K.A. and Ayokunnu, O.D. (2023). Estimating the Disparity and Variability of the Seasonal Precipitations of the Two Regions in Nigeria. *Journal of Science Research* Vol. 20:100-107.
26. Oloruntola, R.F., Adeleke, O. and **Ogunsola, O.E.** (2023). High Level Noise Impact on Image Data of Yagi Antenna Smart TV Transmitting at 18-24 Ghz. *University of Ibadan Journal of Science and Logics in ICT Research* Vol. 10. No. 1: 96-106.
27. Ayokunnu, O.D., **Ogunsola, O.E.**, Mufutau, J.A. and Fasasi, H.A. (2024). The Signature of Sporadic E of an Equatorial Ionosphere of the Low Latitude Region. *International Journal of Innovative Science and Research Technology* Vol. 9. No. 4: 2302-2313.
28. Uzoma, E.K., Otunla, T. A., Nymphas, E. F., **Ogunsola, O. E.** and Adeniyi, M. O. (2025). Assessing Wildfire Occurrence in West Africa with Atmospheric CO₂ Removal. *Advanced Journal of Environmental Sciences* Vol. 16. No. 6:11-29.
29. Sodunke, M. A., **Ogunsola, O.E.** and Lawal, Y.B. (2025). Estimation of the relationship between Derived Dew Point Temperature and Ground Measured Climatic Parameters in Abeokuta, South-Western, Nigeria. *FUOYE Journal of Engineering and Technology*, Vol. 10. No. 2:363-371.

Articles that have already appeared in Refereed Conference Proceedings

1. **Ogunsola, O.E.** (2019). Climate Change Determination within the Tropical Region using CO₂ Gas Concentrations. In Ogundare, F.O., Oyetunji, O.J. and Oladosu, I.A. (Eds.). *Innovative Scientific Research and National Development: Proceedings of the 4th International Conference on Scientific Research in Nigeria*. 20-23 May, 2019. 18-23pp.
2. **Ogunsola, O.E.**, Adeleke, O. and Olaluwoye, O.I. (2020). Mobile 4G LTE Networks Mobility and Coverage for some locations in Ibadan Using Path Loss Analysis. In Longe, O., Boateng, R., Santiago, E. and Okunoye, A. (Eds.). *Research Findings for Addressing Human Centred Challenges in a pandemic* Proceedings of the 26th iSTEAMS Bespoke Multidisciplinary Conference. 30 April-2 May, 2020. 7-22pp.

3. **Ogunsola, O.E., and Dilau, K.A. (2025).** Short-term Response of Soil Temperature to Atmospheric Conditions. In Longe, O., Boateng, R., Santiago, E. and Okunoye, A. (Eds.). Together Towards Tomorrow-Leveraging on Multidisciplinary Research for Human Capital & Global Development Proceedings of the 39th iSTEAMS International Multidisciplinary Innovations and Technology Transfer (MINNT) Conference. 16 – 18 October, 2025. 277-288pp. (Ghana).

Project, Dissertation and Thesis

- (i) Ogunsola, O.E. (1996). Recovery Factor Model Study in the Niger Delta Oil Reservoirs for Both Water Drive and Solution Gas Drive Mechanisms. M.Sc. Dissertation, University of Ibadan, 80pp
- (ii) Ogunsola, O.E. (2004). Causes and Effects of Rainfall Variation in Nigeria. M.Sc. Dissertation, University of Ibadan, 125pp
- (iii) Ogunsola, O.E. (2012). Effects of CO₂ and CH₄ Emissions on Climate Variability in the Tropics. Ph.D. Thesis, University of Ibadan, 210pp

Major Conferences and Workshops Attended with Papers Read (in the last 5 years)

- (a) 5th International Conference on Science and Sustainable Development, 11-13 October, 2021 held at the College of Science & Technology, Covenant University, Ota, Nigeria. **Paper Read:** Ogunsola, O.E. Nitrous oxide variability and predictability in the tropics using statistical analysis
- (b) 5th International Conference on Scientific Research in Nigeria, 2-5 May, 2023 held at the Faculty of Science, University of Ibadan, Ibadan, Nigeria. **Paper Read:** Ogunsola, O.E., Dilau, K.A. and Ayokunnu, O.D. Estimating the Disparity and Variability of the Seasonal Precipitations of the Two Regions in Nigeria
- (c) 5th International Conference on Scientific Research in Nigeria, 2-5 May, 2023 held at the Faculty of Science, University of Ibadan, Ibadan, Nigeria. **Paper Read:** Ogunsola, O.E., Njoku, E.I. and Ayokunnu, O.D. Industrial air pollutants investigation in the Niger Delta region of Nigeria
- (d) 5th International Conference on Scientific Research in Nigeria, 2-5 May, 2023 held at the Faculty of Science, University of Ibadan, Ibadan, Nigeria. **Paper Read:** Ogunsola, O.E. and Ogunrinde, O.A. Decadal variability analysis of ozone-depleting gases in the atmosphere.
- (e) 5th International Conference on Scientific Research in Nigeria, 2-5 May, 2023 held at the Faculty of Science, University of Ibadan, Ibadan, Nigeria. **Paper Read:** Ayokunnu, O.D. and Ogunsola, O.E. The variability of ionospheric equatorial parameters during geomagnetic storm

- (f) 5th International Conference on Scientific Research in Nigeria, 2-5 May, 2023 held at the Faculty of Science, University of Ibadan, Ibadan, Nigeria.
Paper Read: Ayokunnu, O.D. and Ogunsola, O.E. Signature of Sporadic-e of an Equatorial Ionosphere of the low latitude region
- (g) 5th International Conference on Scientific Research in Nigeria, 2-5 May, 2023 held at the Faculty of Science, University of Ibadan, Ibadan, Nigeria.
Paper Read: Yaya, O.S, Gil-Alana, L.A., Ogunsola, O.E., Adesina, O.A. and Olayinka, H.A. Long memory cointegration in the analysis of maximum, minimum and range temperatures in Africa: Implications for Climate change
- (h) 6th International Conference on Scientific Research in Nigeria, 6-9 May, 2025 held at the Faculty of Science, University of Ibadan, Ibadan, Nigeria.
Paper Read: Ogunsola, O.E., Ogunrinde, O.A., Olajide, O.S., Oladipupo, G.O. and Dilau, K.A. Decadal Variability and Source Attribution on Nitrous Oxide (N₂O): Implications for Climate Change and Ozone Depletion-A Systematic Review
- (i) 39th iSTEAMS International Multidisciplinary Innovations and Technology Transfer (MINNT) Conference, 16-18 October, 2025 held at the Department of Operations & Management Information Systems, University of Ghana, Accra, Ghana.
Paper Read: Ogunsola, O.E. and Dilau, K.A. Short-term Response of Soil Temperature to Atmospheric Conditions