CURRICULUM VITAE

I. (a) Name: Taofeek Abiodun Otunla

(b) Date of Birth: 29 December, 1975

(c) Town: Ibadan

(d) Local Government Area: Ibadan North East

(e) State of Origin: Oyo

(f) Nationality: Nigerian(g) Marital Status: Married

(h) Contact Address: Department of Physics, University of

Ibadan, Ibadan

(i) Residential Address: 63, Mosoke, Apete, Ibadan, Ibadan

(j) Telephone Number: +2348053731830; +2347068227139

(k) E-mail Address: <u>ta.otunla@ui.edu.ng</u>, <u>biodunotunla@gmail.com</u>

(l) Present Position: Senior Lecturer

II <u>University Education (with dates)</u>:

(a) University of Ibadan, Ibadan, Nigeria 1998 – 2002
 (b) University of Ibadan, Ibadan, Nigeria 2004 – 2006
 (c) University of Ibadan, Ibadan, Nigeria 2006 – 2012

Academic Qualifications (with dates and granting bodies)

(a) B.Sc. (Hons) Physics, University of Ibadan
(b) M.Sc. (Met) Physics, University of Ibadan
(c) Ph.D. Physics, University of Ibadan
2012

Details of Teaching/Work Experience:

(a) Academic rank held with dates

(i)	Assistant Lecturer	University of Ibadan	2007 - 2011
(ii)	Lecturer II	University of Ibadan	2011 - 2014
(iii)	Lecturer I	University of Ibadan	2014 - 2018
(iv)	Senior Lecturer	University of Ibadan	2018 – till date

(b) Academic Position held with date

(i) Advisor and Head of 100 Level Laboratory 2016 & 2023

(ii) Advisor and Head of 200 Level Laboratory(iii) Advisor and Head of 300 Level Laboratory2018

(iv) Advisor and Head of 400 Level Laboratory 2019

(c) Courses Taught:

PHY 103	Introductory Heat and Thermodynamics
PHY 105	Introductory Waves, Optics and Modern Physics
PHY 113	Basic Principles of Physics IV- Waves, Optics and Modern Physics
PHY 114	Basic Principles of Physics I- Mechanics and properties of matter
PHY 115	Basic Principles of Physics II: Heat and Thermodynamics
PHY 118	Experimental Physics I
PHY 298	Experimental Physics II
PHY 299	Experimental Physics III
PHY 301	Thermodynamics
PHY 303	Classical Physics III
PHY 305	Numerical Computation in Physics
PHY 307	Solid State Physics I
PHY 308	Electromagnetism
PHY 398	Experimental Physics IV
PHY 399	Experimental Physics V
PHY 499	Undergraduate Projects
PHY 701	Electromagnetic Theory
PHY 702	Thermodynamics and Statistical Physics
PHY 737	Physical Meteorological I
PHY 739	Atmospheric Models, Numerical Weather Prediction and Models of
	Tropical Atmosphere
PHY 741	Physical Meteorological II
PHY 761	Laboratory and Field Experiment in Meteorology
PHY 792	Seminar
PHY 790	Research Projects

(d) <u>Community Service and Administrative Duties:</u>

- (i) Rapporteur at Nigerian Institute of Physics 33rd Annual Conference, 2010
- (ii) Chairman, Department of Physics Social and Welfare committee: 2012 till date
- (iii) Member, Department of Physics Finance Committee: 2015 -2020
- (iv) Member, Department of Physics Seminar committee 2016 2017
- (v) Chairman, Physics Department, 100 level Examination committee, 2016 -2020
- (vii) Member, Faculty of Science, ICT committee: 2016-2017
- (viii) Faculty of Science representative on Teaching and ResearchFarm Management Board, 2018
- (ix) Reviewer, Oyo State Lecture Note for Physics
- (x) Reviewer, Journal of Meteorology and Atmospheric Physics
- (xi) Congregational Representative in Senate, 2018 -2020
- (xii) Member, Faculty of Science Alumni relation committee, 2018-till date
- (xiii) Facilitator in a training workshop on science laboratory procedure for science teachers in Oyo state public secondary school, May 2018
- (xiv) Member, Board of Faculty of Technology, 2019

- (xv) Member, Technical Committee, 54th Annual (Hybrid) Conference and 60th
 Anniversary Celebration of Science Association of Nigeria "Oluyole 2021" held
 at Faculty of Science Lakeside Lecture Theatre, University of Ibadan, Ibadan,
 Nigeria, June, 2021.
- (xvi) Chairman, CCMAS, Department of Physics Curriculum Review Committee
- (xvii) Member, Faculty of Science Conference and Workshop committee, 2021-2023
- (xviii) Member, Faculty of Science Board of Studies, 2021-2022
- (xix) Vice-chairman, National Technical Committee on Terminology and Units of Measurements(NTC) for Standard Organization of Nigeria, 2024

V. <u>Honours, Scholarships, Fellowships and Prizes (with dates)</u>:

- (a) Andersen Honours List Award for best student per level (August, 2000)
- (b) Visiting Scholar, University of Bayreuth, Germany (September, 2011)
- (c) Federation Scheme Fellowship, Abdus Salam International Centre for Theoretical Physics, Italy, (July, 2014 August, 2015)

VI Publications and Journal Articles.

- (1). Otunla, T.A., Oladiran, E.O. and Adeniyi, M.O. (2008). Variability and probabilistic extremes of some climatic elements over Ibadan. *Online Journal of Earth Sciences* Vol. 2. No. 4: 124-129. (Pakistan)
- (2). Adeniyi, M.O. and Otunla, T.A. (2010). Estimation of surface energy fluxes using the Penman Monteith method in a tropical station: *The Abdus Salam International Centre for Theoretical Physics* Vol. 84: 1-16
- (3). Otunla, T.A. and Oladiran, E.O. (2011). Assessment of soil thermal properties in a tropical environment: Ile Ife and Ibadan. *Journal of Science Research* Vol. 10. No. 1: 97 102. (Nigeria)
- (4). Otunla, T.A. and Adah, E.O. (2011). Influence of relative humidity and cloud cover on the optimal performance of solar cells at an equatorial site. *Nigerian Journal of Science* Vol. 45. No. 1: 1 5. (Nigeria)
- (5). Leonbacher, J. Fuchs, K. Silva, C., Boese, S., Akinlade, G.O., Otunla, T.A., Kittler, F., Sippel, S., Broer, M., Guozheng, S., Kun, Y., Suring, S., Kanani, F., Kiss, M., Urena, G., Fritz, S. and Wang, B. (2011). Final report of the Lindenberg practical course in experimental micrometeorology, eddy covariance measurements for the assessment of energy and matter fluxes. 86 pp
- (6). Nymphas, E.F., Otunla, T.A., Adeniyi, M.O. and Oladiran, E.O. (2012). Impact of the total solar eclipse of 29 March, 2006 on the surface energy fluxes at Ibadan, Nigeria. *Journal of Atmospheric and Solar-Terrestrial Physics* Vol. 80: 28-36.

- (7). Otunla, T.A. and Oladiran, E.O. (2013). Evaluation of soil thermal diffusivity algorithms at two equatorial sites in West Africa. *Annals of Geophysics:* Vol. 56: 1 12.
- (8). Otunla, T. A. (2013): Capacitors and Dielectrics in: In Idowu P. Farai and Olatunde M. Oni (Eds.) *Fundamentals of Electricity and Magnetism: A Festschrift for Professor A.I. Babalola*. Ibadan: University Press. 57-76pp. ISBN 978-978-8456-09-4.
- (9). Otunla, T.A. and Kolebaje, T.O. (2015). Assessing the performance of global solar radiation empirical models at a Sahelian site, Sokoto, Nigeria. *Journal of the Nigerian Association of Mathematical Physics* Vol. 30: 489 496.
- (10). Otunla, T.A., Ukaegbu, S.C. and Nymphas, E.F. (2018). Design and construction of a low-cost air temperature and pressure data-logging equipment using raspberry pi. *Journal of the Nigerian Association of Mathematical Physics* Vol. 44: 421 424.
- (11). Otunla, T.A. (2019). Estimates of clear-sky solar irradiances over Nigeria. *Renewable energy*: Vol. 131: 778 -787
- (12). Otunla, T.A. and Oluwafemi, S.M.(2019). Simple and reliable methods of estimating ground heat flux at a tropical location in Nigeria. IOP Conf. Series: Journal of Physics: Conf. Series 1299(2019)012079: 1-15
- (13) Otunla T.A.(2020). Oyo State Lecture Notes: Physics. Pp 100
- (14). Otunla, T.A.(2020). Estimation of daily solar radiation at equatorial region of West Africa using a more generalized Angstrom-based broadband hybrid model. Meteorology and Atmospheric Physics. 132: 341-351
- (15). Otunla T.A and Awoyemi B.A. (2020). Parametric Estimation of Beam Solar Irradiance under All-Sky Conditions from Public-Available Satellite Data Set. Bulleting of Science Association of Nigeria. 31: 111 122.
- (16). Otunla T.A. and E.O. Oladiran (2022). Impact of Soil Heat Flux Attenuation on Surface Energy Balance Closure. Manuscript accepted for publication in Nigerian Journal of Science. 55(1):
- (17). Otunla T.A. and Umoren A.K. (2022). Characteristics and Potentials of Two-Parameter Weibull Distribution and Maximum Entropy Distribution Functions at an Equatorial Location. Journal of Science and Technology. 14(2): 40 -52
- (18). Otunla T.A. (2022). PHY 105: Waves, Optics and Modern Physics. ISBN: 978-021-802-5. 89pp.
- VII <u>B.Sc/M.Sc Supervision:</u> About thirty-five students till date
- VIII <u>Academic Linkage:</u> Centre for High Performance Computing, South Africa
- IX. <u>Memberships of Learned Societies:</u>

 Member, Nigerian Institute of Physics

X Major Conferences Attended with Papers Read (in the last 10 years)

- (i) WCRP-ICTP Summer School on Attribution and Prediction of extreme events held at The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, July 19 August 10, 2014.
- (ii) The 38th Annual Conference of Nigerian Institute of Physics, held at Faculty of Science, Olabisi Onabanjo University, Ago-Iwoye Nigeria, November, 2014.
 Paper read: Estimation of global solar radiation with simple hybrid temperature and sunshine duration model at three tropical stations in Nigeria
- (iii) Workshop on Uncertainty Quantification in climate modelling and projection, held at The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 13 17 July, 2015.
- (iv) The 3rd International Conference on Scientific Research in Nigeria, held at Faculty of Science Lakeside Lecture Theatre, University of Ibadan, Ibadan, Nigeria, May, 2017.Paper read: Reconstruction of soil thermal field at a tropical station in Nigeria
- (v) Workshop on introduction to quantitative methods in monitoring and evaluation, held at University of Ibadan Conference Centre, Ibadan, Nigeria, 2 6 July, 2018
- (vi) 54th Annual (Hybrid) Conference and 60th Anniversary Celebration of Science Association of Nigeria "Oluyole 2021" held at Faculty of Science Lakeside Lecture Theatre, University of Ibadan, Ibadan, Nigeria, June, 2021.
 Paper read: Parametric Estimation of Beam Solar Irradiance under All-Sky Conditions from Public-Available Satellite Data Set.
- (vii) 5th International Conference on Scientific Research in Nigeria held at Faculty of Science Lakeside Lecture Theatre, University of Ibadan, Ibadan, Nigeria, June, 2023 Paper read: Assessment of two probabilistic density function for turbine characteristics in two coastal locations in Nigeria.

T.A. Otunla (Ph.D)

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