



OLABISI ONABANJO UNIVERSITY AGO-IWOYE, NIGERIA

CURRICULUM VITAE AND ANNUAL APPRAISAL SHEET FOR ACADEMIC STAFF FOR FULL APPRAISAL: 2016

Format B

PART I: (To be completed by the Staff)

A. PERSONAL DATA

1. **NAME:** ONAFESO Olumide David
2. **DEPARTMENT:** Geography
3. **COLLEGE/FACULTY:** Social Sciences
4. **DATE AND PLACE OF BIRTH:** 21st December 1975; Lagos
5. **NATIONALITY:** Nigerian
6. **MARITAL STATUS:** Married
7. **NUMBER OF CHILDREN:** Two (2) (11 years and 8 years)
8. **NAME AND ADDRESS OF SPOUSE:** Dr (Mrs) E. T. Onafeso,
11 Chris Ogunbanjo Way, Ijebu-Ode
9. **NAME AND ADDRESS OF NEXT OF KIN:** same as (8) above
10. **DATE OF FIRST APPOINTMENT WITH
THE UNIVERSITY:** 11th September, 2007
11. **STATUS OF FIRST APPOINTMENT
AND SALARY:** Assistant Lecturer (UASS 02 Step 01)
12. **PRESENT POSITION AND SALARY:** Lecturer II (CONUASS 03 Step 04)
13. **DATE OF LAST PROMOTION/REGRAIDING:** 16th April, 2014
14. **DATE OF CONFIRMATION OF APPOINTMENT:** Nil
15. **IF NOT CONFIRMED, WHY?:** Applied
16. **PERIOD OF PRESENT CONTRACT:** Not applicable
17. **TOTAL NUMBER OF YEARS IN TEACHING AND RESEARCH:**
 - (a) Polytechnic/College of Education: Nil
 - (b) University: 10 years
18. **E-MAIL ADDRESS:** olumide.onafeso@oouagoiwoye.edu.ng

B. EDUCATIONAL BACKGROUND

1. Academic Qualifications/Institutions Attended (With Dates)

- (i) B.Sc. (Hons.) Geography and Regional Planning, Ogun State University, Ago-Iwoye 2002
- (ii) M.Sc. Geography, University of Ibadan, Ibadan 2005
- (iii) Ph.D. Geography, University of Ibadan, Ibadan 2012

2. Current Higher Degree Programme Registered for: None

3. Awards and Distinction: None

C. WORK EXPERIENCE

1. Previous Work Experience Outside The University System: None

2. Previous Work Experience In Other Universities: None

3. Details of Professional Experience at Olabisi Onabanjo University

(i) TEACHING FUNCTIONS

Courses Taught During 2006/2007 Session

Course Code	Course Title	Status	Units
GRP 212	Environmental Science II	C	3
GRP 316	Laboratory Techniques in Physical Geography	C	3
GRP 334	Environment and Resource Management	E	2
GRP 414	Vegetation Studies	E	2
GRP 416	Land Resources Evaluation	E	2

Courses Taught During 2007/2008 Session

Course Code	Course Title	Status	Units
GRP 411	Fluvial Geomorphology	E	2
GRP 413	Urban Climatology	E	2

Courses Taught During 2013/2014 Session

Course Code	Course Title	Status	Units
GRP 102	Introduction to Physical Geography	C	3
GRP 211	Environmental Science I	C	3
GRP 212	Environmental Science II	C	3
GRP 314	Geomorphology	C	3
GRP 316	Laboratory Techniques in Physical Geography	C	3
GRP 417	Hydrology	E	2
GRP 414	Vegetation Studies	E	2
GRP 416	Land Resources Evaluation	E	2
GRP 411	Fluvial Geomorphology	E	2
GRP 413	Urban Climatology	E	2
TPM 417	Transportation and Rural Development	E	2

Courses Taught During 2014/2015 Session

Course Code	Course Title	Status	Units
GRP 211	Environmental Science I	C	3
GRP 212	Environmental Science II	C	3
GRP 314	Geomorphology	C	3
GRP 316	Laboratory Techniques in Physical Geography	C	3

GRP 322	Population Studies	C	3
GRP 417	Hydrology	E	2
GRP 414	Vegetation Studies	E	2
GRP 416	Land Resources Evaluation	E	2
GRP 411	Fluvial Geomorphology	E	2
TPM 417	Transportation and Rural Development	E	2

Courses Taught During 2015/2016 Session

Course Code	Course Title	Status	Units
GRP 102	Introduction to Practical Geography	C	3
TLM 106	Introduction to Science	C	3
GRP 211	Environmental Science I	C	3
GRP 212	Environmental Science II	C	3
TLM 303	Transportation Policy	C	3
GRP 314	Geomorphology	C	3
GRP 316	Laboratory Techniques in Physical Geography	C	3
GRP 322	Population Studies	C	3
GRP 417	Hydrology	E	2
GRP 414	Vegetation Studies	E	2
GRP 416	Land Resources Evaluation	E	2
GRP 411	Fluvial Geomorphology	E	2

Courses Taught During 2016/2017 Session

Course Code	Course Title	Status	Units
GRP 102	Introduction to Practical Geography	C	3
TLM 106	Introduction to Science	C	3
GRP 211	Environmental Science I	C	3
GRP 212	Environmental Science II	C	3
GRP 314	Geomorphology	C	3
GRP 316	Laboratory Techniques in Physical Geography	C	3
GRP 326	Regional Geography of Africa	C	3
GRP 417	Hydrology	E	2
GRP 411	Fluvial Geomorphology	E	2

(ii) RESEARCH (COMPLETED/ONGOING)

- | | |
|--------------------------------------------------------------------------------------------------------------------|----------------|
| a) Undergraduate Projects (Original Essay) Supervised till date: | 92 |
| b) Postgraduate thesis/dissertation Supervised till date: | Nil |
| c) Spatial and temporal distribution of ozone over Lagos.
CLIVAR Early Career Scientist Network (CLIVAR ECS) – | <i>ongoing</i> |
| d) Statistical Climatic Classification of Nigeria – | <i>ongoing</i> |
| e) Atmospheric Radiative Fluxes and Heating Rates over Nigeria.
Young Earth Systems Scientist Network (YESSN) – | <i>ongoing</i> |

(iii) ADMINISTRATIVE FUNCTIONS AND CONTRIBUTION TO THE UNIVERSITY

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|-----------------------------------------------------------------------|-------------------------|
| 1. Departmental Examination Officer GRP Sc. | (2007/2008 - 2014/2015) |
| 2. Member, Faculty of the Social Sciences Research Committee | (2007/2008) |
| 3. Member, Centre for Transport Studies Journal Committee | (2007/2008) |
| 4. Member, Climate Observatory Studies Committee | (2007/2008) |
| 5. Member, Committee on Students Records/Files | (2007/2008) |
| 6. Member, Committee on Departmental Publication and Library update | (2007/2008) |
| 7. Member, Committee on Programme Prospectus and Regulations Handbook | (2007/2008) |
| 8. Assistant Coordinator, Physical Planning Practice – SIWES | (2013/2014) |

9. Member, Departmental Examination/Results Verification Committee (2013/2014)
10. Member, Faculty of Social & Management Sciences Examination Committee (2013/2014)
11. Member, Faculty of Social & Management Sciences Research Committee (2015/2016)
12. Assistant Coordinator, Departmental Research Project (2015/2016)
13. Coordinator, Field Work (2015/2016)
14. Assistant Coordinator, Postgraduate Programme (2015/2016)
15. Coordinator, Climatic Observatory Studies (2015/2016)
16. 100 Level Students' Adviser (2015/2016)
17. Postgraduate Coordinator (2016/2017)

D. MEMBERSHIP OF AND REGISTRATION WITH PROFESSIONAL BODIES

1. Association of Nigerian Geographers (ANG)
2. Solar Energy Society of Nigeria (SESN)
3. International Association of Hydrological Sciences (IAHS)
4. International Association of Urban Climatology (IAUC)
5. Nigerian Meteorological Society (NmetS)
6. World Academy of Young Scientists (WAYS)
7. Association of American Geographers (AAG)
8. Nigeria Association of Hydrological Sciences (NAHS)

E. ACADEMIC PUBLICATIONS

i. THESIS/DISSERTATION

1. **Onafeso O.D.** (2002). Micro-thermal Conditions in Urban Environment: An Appraisal of temperature and Sunshine Duration Patterns in Ijebu-Ode. Unpublished B.Sc. (Hons) original essay submitted to the Geography and Regional Planning Department, Ogun State University, Ago-Iwoye.
2. **Onafeso O.D.** (2005). Seasonal and Spatial Distribution of Direct Solar Radiation over Nigeria from Geostationary Satellite. Unpublished M.Sc. Dissertation submitted to the Department of Geography, University of Ibadan, Ibadan.
3. **Onafeso O.D.** (2012). Analysis of Changes in Rainfall Pattern and Runoff Predictions for the Lower River Niger, Nigeria. Unpublished PhD Thesis submitted to the Department of Geography, University of Ibadan, Ibadan.

ii. BOOKS – Nil

iii. MONOGRAPHS – Nil

iv. JOURNAL ARTICLES

1. **Onafeso O.D.** (2006). The Need for Government Ownership of Solar Energy production in the Achievement of the Millennium Development Goals in Nigeria. Nigerian Journal of Solar Energy Vol. 16: 143-154 ISSN: 07949537 *Published by:* Solar Energy Society of Nigeria.
2. ****Fashae O.A. and O.D. Onafeso** (2011). Impact of Climate Change on Sea Level Rise in Lagos, Nigeria. International Journal of Remote Sensing Vol. 32 (24): 9811-9819 DOI:10.1080/01431161.2011.581709 *Published by:* Remote Sensing and Photogrammetry Society.

3. Akanni C.O. and **O.D. Onafeso** (2013). First Order Traffic Flow Simulation of Pedestrian Walking Behaviour in Ago-Iwoye, Nigeria. Lagos Journal of Geo-Information Sciences 2 (1): 28-40
Published by: Department of Geography, University of Lagos.
 4. Adegbayi M.H. and **O.D. Onafeso** (2014) A Modified Cell Transmission Model of Air Traffic Flow in Nigeria. Journal of Engineering & Environmental Studies 5 (1): 15-24 ISSN-2276-7010
Published by: College of Engineering and Environmental Studies, Olabisi Onabanjo University, Ago-Iwoye.
 5. ****Onafeso O.D.,** C.O. Akanni and B.A. Badejo (2015) Climate Change Dynamics and Imperatives for Food Security in Nigeria. Indonasian Journal of Geography. 47 (2): 151-159 *Published by:* Faculty of Geography, Universitas Gadjah Mada, Bulaksumur, Indonesia.
 6. **Onafeso O.D.** (2015) Modelling evapotranspiration from satellite derived solar radiation in Nigeria. African Journal of Science and Nature. 1: 31-38 *Published by:* Olabisi Onabanjo University, Ago-Iwoye.
- v. PAPERS ACCEPTED FOR PUBLICATION (With Letters of Acceptance)
7. ****Onafeso O.D.,** O.A. Olusola, and S.A. Adeniyi (in press) Deep Percolation Modelling of Groundwater Recharge in Voinjama Region, Liberia. The Ethiopian Journal of Environmental Studies and Management. (EJESM). *Published by:* Department of Geography and Environmental Studies, Bahir Dar University, Ethiopia. Accepted 16th June 2016.
- vi. CONTRIBUTION TO BOOKS
8. ****Gbadegesin A.S. and O.D. Onafeso** (2010): The Physical Basis of Spatial Organization in West Africa, in Maitrise de l'espace et developement en Afrique (Eds) John O. Igue. Kengne Fodouop et Jerome Aloko-N'Guessan. Collection Maitrise de l'espace et developement. Paris: Karthala, cop. 2010. - 340 p. Vol. 1, pp. 19-42. ISBN: 978-2-8111-02647
<http://www.karthala.com/2203-maitrise-de-lespace-et-developement-en-afrique-etat-des-lieux-9782811102647.html> *Published by:* Editions Karthala.
 9. **Onafeso O.D.** and F.O. Akintola (2012): Flood Early Warning Systems in Nigeria, in Sustainable Environmental Management in Nigeria (Eds) Matt F.A. Ivbijaro and Festus Akintola. Second Edition, Bookbuilders – Edition Africa, Ibadan, 2012. - 445p. pp. 209-224. ISBN: 978-978-921-019-0. *Published by:* Bookbuilders Edition Africa.
 10. **Onafeso O.D.** (2012). The Church, Environmental Degradation and the Challenge of Climate Change, in The Church and the Environment (Eds) Adetoye Faniran and Emiola Nihinlola. Penthouse Publications (Nig.) Ibadan. - 115 p., pp. 47-58. ISBN: 978-978-088-2716. *Published by:* Nigerian Baptist Theological Seminary, Ogbomoso.
 11. **Onafeso O.D.** and A.O. Olusola (2015). Evapotranspiration Modelling and Ecogeomorphological Classification of Landscapes in Nigeria. In Frontiers in Environmental Research and Sustainable Development in the 21st Century. (Eds) Gbadegesin, A.S., Eze, E. B., Orimoogunje, O.O.I., Fashae, O.A., Ibadan University Press. - 630 p. ISBN: 978-978-8456-92-6 pp. 265-278 *Published by:* Department of Geography, University of Ibadan.
- vii. PUBLISHED CONFERENCE PROCEEDINGS
12. **Onafeso O.D.** (2008). Modelling Wind Power Potential over South-West Nigeria. Refereed Proceedings of the Conference on Physics for Sustainable Environment, Transportation and Economic Empowerment, August 6-8, 2008, Olabisi Onabanjo University, Ago-Iwoye,

Nigeria, Vol.2, pp.137-143. *Published by:* Olabisi Onabanjo University, Ago-Iwoye. *Edited by:* Dr Kola Odunaike et. al.

13. Gbadegesin A.S., **O.D. Onafeso** and F.O. Oderinde (2010). Soil Energy Sources and Climate Change. Proceedings of the National Conference of the Nigerian Meteorological Society, November 1-4, 2010, University of Ilorin, Ilorin Nigeria, pp.173-181 *Published by:* Nigerian Meteorological Society. *Edited by:* C.O. Akoshile, A.A. Adeloje, T.R. Fayeye and T.B. Ajibola
14. **Onafeso O.D.** (2012). Rainfall-Runoff Model for Lower River Niger Under Climate Change Scenarios. Proceedings of the 2012 Annual Conference of the Nigerian Meteorological Society, November 5-9, 2012, University of Benin, Benin-City, Nigeria, pp.1-3 *Published by:* Nigerian Meteorological Society. *Edited by:* Prof. P.A.O. Odjugo
15. **Onafeso O.D.** and F.O. Oderinde (2012). Analysis of Diurnal Changes in Sunshine Intensity as Local Climate Predictor. Proceedings of the 2012 Annual Conference of the Nigerian Meteorological Society, November 5-9, 2012, University of Benin, Benin-City, Nigeria, pp.4-6 *Published by:* Nigerian Meteorological Society. *Edited by:* Prof. P.A.O. Odjugo
16. **Onafeso O.D.** and K.J. Samuel (2012). The Role of ICT in the Establishment of Flood Early Warning System in Nigeria. Proceedings of Climate Change and ICT Conference, Osun State University, Okuku, Osun State, Nigeria. November 27-28, 2012. pp. 35-49 *Published by:* Osun State University, Osogbo. *Edited by:* Temi Ologunorisa, Adekunle Okunoye, Kayode J. Samuel

viii. TECHNICAL REPORTS

17. Akintola F.O., A.O. Alao and **O.D. Onafeso** (2009). Establishment of Flood Early Warning System for Nigeria. Final Report submitted to the Federal Ministry of Environment, Nigeria in conjunction with the United Nation Development Programme (UNDP). http://nigeriafews.net/floodresearch/reports/preliminary/establishment_of_fews_nigeria.pdf *Submitted to:* Federal Ministry of Environment, Abuja.
18. Faniran A., A.O. Ayodele, **O.D. Onafeso** and O.A. Fashae (2009). Pre-development ecological survey for the proposed Mccarthy University, Ibore Irrua, Edo State Nigeria. Draft and Final Report submitted to the Nigeria University Commission. *Submitted to:* Nigeria University Commission, Abuja.
19. Faniran A., A.O. Ayodele, **O.D. Onafeso** and O.A. Fashae (2010). Pre-development ecological survey for the proposed George and Duke University, Elenusonso, Ibadan, Oyo State Nigeria. Draft and Final Report submitted to the Nigerian University Commission. *Submitted to:* Nigeria University Commission, Abuja.
20. Faniran A., **O.D. Onafeso** and O.A. Olusola (2013). Pre-development ecological survey for the proposed Technical University, Ibadan, Oyo State Nigeria. Draft and Final Report submitted to the Nigerian University Commission. 2013. *Submitted to:* Nigeria University Commission, Abuja.

ix. MANUSCRIPTS SUBMITTED FOR PUBLICATIONS:

21. **Onafeso O.D.** (in press) Ocean Oscillation and Drought Indices. In Eslamian S.S. et. al. (Eds) Handbook of Drought and Water Scarcity. Vol. 1 Chapter 7. *Submitted to:* Taylor and Francis, USA.
22. **Onafeso O.D.** and A.M. Hassan (in press) Africa in the Geography of Globalization. The Journal of Geographical Issues. *Submitted to:* University of Lagos.

x. UNPUBLISHED CONFERENCE/WORKSHOP PAPERS AND PUBLIC LECTURES

1. **Onafeso O.D.** (2010): Climate Change and related River Flows of the Lower Niger, Nigeria. Submitted for the International Centre for Theoretical Physics ICTP-AFRICA Conference on Developing Countries Vulnerability to Climate Change, held at the University of Botswana, Gaborone, Botswana. 19-23 April, 2010. (Book of Abstract)
2. Chukwu A.U, C.G. Udomboso, V.C. Onyeze, and **O.D. Onafeso** (2011): Statistical And Neural Network Approach For Modelling Daily Evapotranspiration At The International Institute Of Tropical Agriculture (IITA), Ibadan, Nigeria – A Comparative Study. (*IBS 2011 Conference, Botswana*) Sub-Saharan Africa Network (SUSAN) of The International Biometric Society (IBS) Conference, held at University of Botswana, 4775 Notwane Road, Gaborone, Botswana 27 June - 1 July, 2011 (Oral Presentation)

E. CONFERENCES ATTENDED WITH DATES AND PAPERS READ

1. Faculty Conference 2007. Faculty of Science. Obafemi Awolowo University, Ile-Ife. July 3 - 5, 2007
2. Conference on Physics for Sustainable Environment, Transportation and Economic Empowerment. Olabisi Onabanjo University, Ago-Iwoye, Nigeria. August 6 - 8, 2008
3. Workshop on Sustainable Environmental Management organized by the United Nation Development Programme for the Ondo State Ministry of Environment, held at Owena Motels, Akure, Ondo State, December 2 – 4 2008
4. International Centre for Theoretical Physics ICTP-AFRICA Conference on Developing Countries Vulnerability to Climate Change. University of Botswana, Gaborone, Botswana. April 19 – 23, 2010
5. National Conference of the Nigerian Meteorological Society. University of Ilorin, Ilorin Nigeria. November 1-4, 2010
6. 53rd Annual Conference of the Association of Nigerian Geographers (ANG). Department of Geography and Planning, Faculty of Social Sciences, Lagos State University. November 21 – 25, 2011
7. Annual Conference of the Nigerian Meteorological Society. University of Benin, Benin-City, Nigeria. November 5 - 9, 2012
8. Climate Change and ICT Conference, Osun State University, Okuku, Osun State, Nigeria. November 27 – 28, 2012.

G. CONTRIBUTION TO NATIONAL AND INTERNATIONAL LIFE

1. Within the University:
2. Outside the University:

H. CONTRIBUTION TO KNOWLEDGE

(a) Paper by paper contribution to jointly authored papers

S/No.	Authors	Title of Publication	Type of Study	Year	Authors Contribution to Paper
1	Fashae A.O. and O.D. Onafeso	Impact of Climate Change on Sea Level Rise in Lagos, Nigeria. <u>International Journal of Remote Sensing</u> Vol. 32 (24): 9811-9819 doi:10.1080/01431161.2011.581709	Empirical	2011	I conceived the research idea and wrote the bulk of the literature, collected the data and analysed. <i>% Contribution: 50%</i>
2	Akanni C.O. and O.D. Onafeso	First Order Traffic Flow Simulation of Pedestrian Walking Behaviour in Ago-Iwoye, Nigeria. <u>Lagos Journal of Geo-Information Sciences</u> Vol. 2 (1): 28-40	Empirical	2013	I conceived the research idea, designed the methodology, collected the data and analysed. <i>% Contribution: 50%</i>
3	Adegbayi M.H. and O.D. Onafeso	A Modified Cell Transmission Model of Air Traffic Flow in Nigeria. <u>Journal of Engineering & Environmental Studies</u> Vol. 5 (1): 15-24 ISSN-2276-7010	Empirical	2014	I conceived the research idea, designed the methodology, collected the data and analysed. <i>% Contribution: 50%</i>
4	Onafeso, O.D. C.O. Akanni and B.A. Badejo	Climate Change Dynamics and Imperatives for Food Security in Nigeria. <u>Indonesian Journal of Geography</u> . 47 (2): 151-159	Empirical	2015	I designed the methodology, collected the data and analysed. I also wrote parts of the introduction, discussion and conclusion. <i>% Contribution: 40%</i>
5	Onafeso O.D. , O.A. Olusola, and S.A. Adeniyi	Deep Percolation Modelling of Groundwater Recharge in Voinjama Region, Liberia. <u>The Ethiopian Journal of Environmental Studies and Management</u> . (EJESM).	Empirical	In press	I conceived the research idea, designed the methodology, collected the data and analysed. I also wrote parts of the introduction, discussion and conclusion. <i>% Contribution: 60%</i>
6	Gbadegesin A.S. and O.D. Onafeso	The Physical Basis of Spatial Organization in West Africa, in <u>Maitrise de l'espace et development en Afrique</u> (Eds) John O. Igue. Kengne Fodouop et Jerome Alokou-N'Guessan. Collection Maitrise de l'espace et development. Paris: Karthala, cop. 2010. - 340p. Vol. 1, pp. 19-42. ISBN: 978-2-8111-02647. http://www.karthala.com/2203-maitrise-de-lespace-et-development-en-afrique-etat-des-lieux-9782811102647.html	Theoretical	2010	I designed the concept, collected the data and analysed. I also wrote parts of the introduction, discussion and conclusion. <i>% Contribution: 80%</i>
7	Onafeso O.D. and F.O. Akintola	Flood Early Warning Systems in Nigeria, in <u>Sustainable Environmental Management in Nigeria</u> (Eds) Matt F.A. Ivbijaro and Festus Akintola. Second Edition, Bookbuilders – Edition Africa, Ibadan, 2012. - 445p. pp. 209-224. ISBN: 978-978-921-019-0.	Theoretical	2012	I conceived the research idea, designed the methodology, collected the data and analysed. I also wrote parts of the introduction, discussion and conclusion. <i>% Contribution: 80%</i>

8	Onafeso O.D. and A.O. Olusola	Evapotranspiration Modelling and Ecogeomorphological Classification of Landscapes in Nigeria. In <u>Frontiers in Environmental Research and Sustainable Development in the 21st Century</u> . (Eds) Gbadegesin, A.S., Eze, E. B., Orimoogunje, O.O.I., Fashae, O.A., Ibadan University Press. - 630 p. ISBN: 978-978-8456-92-6 pp. 265-278	Empirical	2015	I conceived the research idea, designed the methodology, collected the data and analysed. I also wrote parts of the introduction, discussion and conclusion. <i>% Contribution: 80%</i>
9	Gbadegesin A.S. O.D. Onafeso and F.O. Oderinde	Soil Energy Sources and Climate Change. <u>Proceedings of the National Conference of the Nigerian Meteorological Society</u> , November 1-4, 2010, University of Ilorin, Ilorin Nigeria, pp.173-181	Theoretical	2010	I conceived the research idea, designed the methodology, collected the data and analysed. I also wrote parts of the introduction, discussion and conclusion. <i>% Contribution: 50%</i>
10	Onafeso O.D. and F.O. Oderinde	Analysis of Diurnal Changes in Sunshine Intensity as Local Climate Predictor. <u>Proceedings of the 2012 Annual Conference of the Nigerian Meteorological Society</u> , November 5-9, 2012, University of Benin, Benin-City, Nigeria, p.4-6	Empirical	2012	I conceived the research idea, designed the methodology, collected the data and analysed. I also wrote parts of the introduction, discussion and conclusion. <i>% Contribution: 80%</i>
11	Onafeso O.D. and K.J. Samuel	The Role of ICT in the Establishment of Flood Early Warning System in Nigeria. <u>Proceedings of Climate Change and ICT Conference</u> , Osun State University, Okuku, Osun State, Nigeria. November 27-28, 2012. p. 35-49	Theoretical	2012	I conceived the research idea, designed the methodology, collected the data and analysed. I also wrote parts of the introduction, discussion and conclusion. <i>% Contribution: 80%</i>

(b) General contribution to knowledge

In summary the contributions of my papers to knowledge is in the area of earth systems modelling especially including the estimation of evapotranspiration, groundwater recharge, rainfall-runoff dynamics, solar energy distributions, climate change impacts on food security, sea level alterations and coastal zone management as well as pedestrian traffic patterns and air traffic flows and management. With the establishment of flood early warning system in Nigeria being the most significant novel addition to the body of knowledge, all the contributions are directed towards the physical basis of spatial organisation and the effective management of resources more importantly related to water.

24th January, 2018

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Signature

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Date