

CURRICULUM VITAE

01. PERSONAL

- (i) Name in Full : OJO Oluwafolake Esther (nee OLAYIWOLA)
- (ii) Date of Birth: 18th December, 1983.
- (iii) Place of Birth: Osun State.
- (iv) Age: 37 years
- (v) Sex: Female.
- (vi) Marital Status: Married.
- (vii) Nationality: Nigerian
- (viii) Town and State of Origin: Ikole, Ekiti State.
- (ix) Contact Address: Department of Computer Science, Federal University of
Agriculture, Abeokuta, Ogun State, Nigeria.
- (x) Phone Number: 07032813890
- (xi) E-mail Address: ojoeo@funaab.edu.ng
- (xii) Present Post and Salary: Lecturer I

02. EDUCATIONAL BACKGROUND

(i) Education Institutions Attended (with dates):

- (a) Obafemi Awolowo University, Ile-Ife, Osun State. 2013-2017
- (b) Obafemi Awolowo University, Ile-Ife, Osun State. 2010-2012
- (c) Olabisi Onabanjo University, Ago-Iwoye, Ogun State. 2002-2007

(ii) Academic and Professional Qualifications (with Dates)

- (a) Ph.D. (Computer Science) November, 2017
- (b) M.Sc. (Computer Science) November, 2012
- (c) B.Sc. (Computer Science) July, 2007.

(iii) Prizes, Honours, Scholarship, National and International Recognition

- (a) Young Researchers Award, 8th Digital Heidelberg Laureates Forum– Award September, 2021
Certificate, Workshop, and Conference Grant recipient of the Heidelberg Laureates Forum Foundation, Heidelberg, Germany
- (b) **Co-Investigator**, TETFUND Grant Award for Design and Implementation April, 2021
of PlantDoctor: A Mobile Based Intelligent Plant Disease Diagnostic System . Principal Investigator: Prof. S.A. Onashoga, Reference Number: NFR/SETI/AFS/00478. Award Sum: N19,902,500.
- (c) IEEE Control System Society Outreach Fund Travel Allowance Award for December, 2017
the Control Conference Africa.
- (d) Tertiary Education Training Fund (TETfund) Grant Award for PhD September, 2017
Benchmark at Department of Security, Networks and Multimedia, Telecom Bretagne (now IMT Atlantique), Cesson-Sevigne, France.
- (e) Tetfund Intervention Project 2011/2012/2013 Award of Obafemi Awolowo April, 2013
University, Ile- Ife, Nigeria. Research team (under Dr. A. O. Oluwatope, Role: Research Assistant).

03. WORKING EXPERIENCE

(a) Teaching and Research

- (i) Lecturer I October, 2019 – Till Date
Department of Computer Science, Federal University of Agriculture,
Abeokuta, Nigeria.
Duties: - Teaching of Computer Science courses at postgraduate and undergraduate levels.
- Supervision of Students

- Academic research
- Result processing and other responsibilities as assigned by the HOD.

(ii) Lecturer II

October, 2016 – September, 2019

Department of Computer Science, Federal University of Agriculture,
Abeokuta, Nigeria.

Duties: - Teaching of Computer Science courses at postgraduate and undergraduate levels.

- Supervision of Students
- Academic research
- Result processing and other responsibilities as assigned by the HOD.

(iii) Assistant Lecturer

May, 2013- September, 2016

Department of Computer Science, Federal University of Agriculture,
Abeokuta, Nigeria.

Duties: Teaching of Computer Science courses at undergraduate level.

- Supervision of Students
- Academic research
- Result processing and other responsibilities as assigned by the HOD.

(iv) Research Assistant to Dr. A. O. Oluwatope

June, 2010 – August, 2012

Department of Computer Science and Engineering,
Obafemi Awolowo University, Ile-Ife, Osun State.

Duties: Academic research and supervision of practical classes.

(b) Courses Taught in the Last Three (3) Sessions**2017/2018 SESSION**

Designation	Specialization	Course Code	Unit	No. of students	Contact Hours	No. of Lecturers	Contribution
Lecturer II	Multimedia Computing, Protocol Modeling and Simulation, Network Management	CSC 102	3	500	39	3	Coordinator/Lecturer
		CSC 201	3	1500	39	3	Coordinator/Lecturer
		CSC 271	3	100	39	1	Lecturer
		CSC 437	3	80	39	1	Lecturer
		CSC 412	3	40	39	1	Lecturer
		CSC 491	1	80	39	11	Lecturer
		CSC 492	1	80	39	11	Lecturer
		CSC499	6	7	78	1	Lecturer
		CSC 713	3	10	39	1	Lecturer
		CST 807	3	10	39	2	Lecturer
		CSC 801	4	500	42	9	Lecturer
		CSC 805	3	15	39	2	Lecturer

2018/2019 SESSION

Designation	Specialization	Course Code	Unit	No. of students	Contact Hours	No. of Lecturers	Contribution
Lecturer I / Lecturer II	Multimedia Computing, Protocol Modeling and Simulation, Network Management	CSC 102	3	500	39	3	Coordinator/Lecturer
		CSC 201	3	1500	39	3	Coordinator/Lecturer
		CSC 271	3	100	39	1	Lecturer
		CSC 437	3	80	39	1	Lecturer
		CSC 412	3	40	39	1	Lecturer
		CSC 491	1	80	39	11	Lecturer
		CSC 492	1	80	39	11	Lecturer
		CSC499	6	7	78	1	Lecturer
		CSC 713	3	10	39	1	Lecturer
		CST 807	3	10	39	2	Lecturer
		CSC 801	4	500	42	9	Lecturer
		CSC 805	3	15	39	2	Lecturer

2019/2020 SESSION

Designation	Specialization	Course Code	Unit	No. of students	Contact Hours	No. of Lecturers	Contribution
Lecturer I	Multimedia Computing, Computer Networks.	CSC 102	2	572	39	3	Coordinator/Lecturer
		CSC 201	3	1554	39	4	Coordinator/Lecturer
		CSC 271	3	135	39	2	Lecturer
		CSC 447	3	81	39	2	Lecturer
		CSC 444	3	75	39	1	Lecturer
		CSC 436	3	1	39	1	Lecturer
		CSC 491	1	81	39	11	Lecturer
		CSC 492	1	81	39	11	Lecturer
		CSC499	4	6	78	1	Lecturer
		CSC 713	3	5	39	1	Lecturer
		CSC 707	3	5	39	1	Lecturer
		CSC 714	3	5	39	1	Lecturer
		CST 805	3	9	39	1	Lecturer
		CST 808	3	8	39	2	Lecturer
		CST 899	6	2	39	1	Lecturer
		CSC 801	4	700	42	9	Lecturer
		CSC 819	3	12	39	2	Lecturer
CSC 804	3	12	39	1	Lecturer		

04. SPECIAL ASSIGNMENTS/COMMUNITY SERVICE

(a) Administrative/Technical Experience

(i) Department of Computer Science, Federal University of Agriculture, Abeokuta, Nigeria.

Role: 100 Level Students Adviser

Period: December, 2014- December, 2015.

(ii) Department of Computer Science, Federal University of Agriculture, Abeokuta, Nigeria.

Role: Secretary, Departmental Academic Board

Period: June, 2015- till date.

(iii) Department of Computer Science, Federal University of Agriculture, Abeokuta, Nigeria.

Role: 200 Level Students Adviser

Period: August, 2017- March, 2018.

(iv) Department of Computer Science, Federal University of Agriculture, Abeokuta, Nigeria.

Role: 300 Level Students Adviser

Period: April, 2018- March, 2019.

(v) Department of Computer Science, Federal University of Agriculture, Abeokuta, Nigeria.

Role: 400 Level Students Adviser

Period: May, 2019- till date.

(b) Committees Served

(i) Department of Computer Science, Federal University of Agriculture, Abeokuta, Nigeria.

Role: Secretary, Departmental Accreditation Committee.

Period: July, 2014 – December, 2014, August 2018 – till date.

(ii) College of Natural Science, Federal University of Agriculture, Abeokuta, Nigeria.

Role: Member, College Board

Period: June, 2013- 2015.

(iii) College of Physical Sciences, Federal University of Agriculture, Abeokuta, Nigeria.

Role: Member, College Board

Period: 2015- till date.

(iv) Time Table and Examination Committee, Federal University of Agriculture, Abeokuta,
Nigeria

Role: College of Physical Sciences Representative

Period: April, 2016- till date.

(c) Community Service

(i) **Computer Teacher**, Susanna Orphanage Home, Ukwa West Local Government Area, Abia State. June, 2008 – January, 2009.

- (ii) **Member**, Local Organizing Committee, 1st International Conference on Applied Information Technology (AIT 2015). July, 2015 – October 2015.
- (iii) **Member**, Local Organizing Committee, 2nd International Conference on Applied Information Technology (AIT 2017). June, 2017 – August, 2017.
- (iv) **Member**, Local Organizing Committee, 3rd International Conference on Applied Information Technology (AIT 2019) May, 2019 - Till Date.
- (v) **Reviewer**, International Journal of Communication Systems, John Wiley 2019 – Till Date.
- (vi) **Reviewer**, Academia in Information Technology, ITED Conference, Nigeria. 2018 – Till Date

05. TRAINING PROGRAMME ATTENDED (with dates)

- (a) Virtual Heidelberg Laureates Forum, Organized by Heidelberg Laureates Forum Foundation, Germany. September, 2020
- (b) Scientific Writing and Publishing Course for FUNAAB, Organized by African Women in Agricultural Research and Development Management, Park Inn Hotel, Abeokuta, Nigeria. September, 2019.
- (c) Grant Training Workshop, Organized by Directorate of Grant Management, Federal University of Agriculture, Abeokuta, Nigeria. October, 2018.
- (d) Professional Training on Database Foundations, Organized by Oracle Academy, Federal University of Agriculture, Abeokuta, Nigeria. March 2017.
- (e) Capacity Building Workshop, Organized by Centre for Innovation and Strategy in Learning and Teaching, Federal University of Agriculture, Abeokuta, Nigeria. January, 2016.

- (f) Training on Ethics of Examination and Invigilation, Organized by August, 2014.
Time Table and Examination Committee, Federal University of
Agriculture, Abeokuta, Nigeria.
- (g) Workshop on “Theory and Application of Constraint-based Modeling, August, 2011.
Organized by Computer Science & Engineering Department, OAU,
Ile-Ife and The African Languages Technologies Initiative (ALT-i)

06. COMMENDATION

- (i) Chairman’s Award, National Youth Service Corps, Abia State. 2009.

07. MEMBERSHIP OF PROFESSIONAL BODIES

- (i) **Member**, Association for Computing Machinery (ACM), October, 2017.
Membership No: 5192827.
- (ii) **Member**, Oracle Academy. March, 2017.
- (iii) **Member**, Nigeria Computer Society (NCS), Membership No.: 08972. July, 2014.
- (iv) **Member**, Nigerian Institute of Management (NIM). 2009.

08. RESEARCH INTEREST OR COMMISSIONED PROJECTS

(i) Research in Progress

- (a) Peer-Assisted 360° Video Technology for Low Capacity Networks.
- (b) Chaotic Analysis and Control of Video Streaming System.
- (c) Intelligent Video Streaming Security System for Smart Devices.
- (d) PShare: A Predictive Video Sharing Strategy in a Peer-Assisted CDN.

09. PUBLICATION(S)

Dissertation

- (a) **Olayiwola O.E.** (2007). Message Encryption, B.Sc. Dissertation in Computer Science, Olabisi
Onabanjo University, Ago-Iwoye, Nigeria.

- (b) **Olayiwola O.E.** (2012). Modelling and Simulation of Real-Time Variable Bit Rate Packet-Data Mobility Scheme in Slow-Speed Network, M.Sc. Dissertation in Computer Science, Obafemi Awolowo University, Ile-Ife, Nigeria.
- (c) **Ojo O. E.** (2017). Development of a Modified Peer-to-Peer Architecture for Live Video Streaming across Large Delay Networks, Ph.D. Dissertation in Computer Science, Obafemi Awolowo University, Ile-Ife, Nigeria.

(i) **Journals Articles in Print**

- (1) **Olayiwola, O.**, Oyewo, D., Oluwatope, A., Aderounmu, A. and Adagunodo, R. (2012): Double-Buffer Traffic Shaper Modelling for Multimedia Applications in Slow Speed Network. *Issues in Informing Science and Information Technology*, 9; 361-368, Published by Informing Science Institute, USA, ISSN: 1547-9684. Available online at <http://www.informingscience.org/Publications/1627?Source=%2FJournals%2FIISIT%2FArticles%3FVolume%3D9-2012>.
- (2) Oluwatope, A. O., Oyewo, D. T., **Olayiwola O. E.**, Aderoumnu, G.A. and Adagunodo, E.R. (2013): Buffer Occupancy of Double-Buffer Sharper in Real-Time Multimedia Applications across Slow-Speed Links. *Communications and Network*, 5(1); 84-92, Published by Scientific Research, USA, ISSN: 1949-2421. Available online at <http://www.scirp.org/Journal/PaperInformation.aspx?PaperID=28242>.
- (3) Vincent, O. R., **Olayiwola O. E.** and Kosemani, O. O. (2014): Estimating Traffic Intensity at Toll Gates Using Queueing Networks. *International Journal of Advanced Computer Science and Applications*, 5(4); 130-138, Published by The Science and Information Organization, UK, ISSN:2156-5570. Available online at <http://thesai.org/Publications/ViewPaper?Volume=5&Issue=4&Code=IJACSA&SerialNo=19>.
- (4) **Ojo, O. E.**, Oluwatope, A. O. and Arowobusoye, I. T. (2015): Steady Traffic Scheduler for Internet Video Traffic across Large Delay Networks. *The Journal of Computer Science and its*

- Application*, 22(2); 17-27, Published by Nigeria Computer Society. Available online at <https://www.ajol.info/index.php/jcsia/issue/view/15602>, Nigeria.
- (5) Vincent O. R., **Ojo, O. E.** and Lawal, O. M. (2015): Deductive Modification of S-Box in Aes Algorithm for Image Steganography. *The Journal of Computer Science and its Application*, 22(2); 28-37, Published by Nigeria Computer Society. Available online at <https://www.ajol.info/index.php/jcsia/issue/view/15602>, Nigeria.
- (6) Ikuomola A. J. and **Ojo O. E.** (2016): An Effective Health Care Insurance Fraud and Abuse Detection System. *The Journal of Natural Sciences, Engineering and Technology (Formerly ASSET Journal Series B)*, 15(2); 1-12, Published by Federal University of Agriculture, Abeokuta Nigeria, ISSN: 2277-0593/2315-7461. Available online at <http://journal.unaab.edu.ng/index.php/JNSET/article/view/1662>, Nigeria.
- (7) Vincent, O. R., Makinde, S. A. and **Ojo, O. E.** (2017): The Convergence of No-Reference and Full-Reference in Objective Image Quality Assessment. *Transaction of the Nigeria Association of Mathematical Physics*, 3(1); 177-188, Published by Nigeria Association of Mathematical Physics. Available online at <http://e.nampjournals.org>, Nigeria.
- (8) **Ojo, O. E.**, Ajayi, T. D., Orenuga, O. O. and Oluwatope, A. O (2018). MEPLN E-Learning: Mesh-Based Peer-to-Peer Collaborative E-Learning System for Limited Capacity Networks. *The Journal of Computer Science and its Application*, 25(1); 152-161, Published by Nigeria Computer Society. Available online at <https://www.ajol.info/index.php/jcsia/article/view/175638>, Nigeria.
- (9) Onashoga, S. A., **Ojo, O. E.** and Soyombo, O. O. (2019). Securix: A 3D Game-Based Learning Approach for Phishing Attack Awareness. *Journal of Cyber Security Technology*. 3(2);108-124, Published by Taylor & Francis. DOI: doi.org/10.1080/23742917.2019.1624011. UK.

- (10) **Ojo, O. E.**, Olorunfemi, T. O., Folorunso O. Omoijunafo, C. (2019). An Intelligent peer-to-peer streaming model for minimizing Flash Crowd. *The Journal of Computer Science and its Application*, 26 (1); 65-72, Published by Nigeria Computer Society. Nigeria.
- (11) **Ojo, O. E.**, Oluwatope, A. O., and Ajadi, S. O. (2020). Formal verification of a peer-to-peer streaming protocol. *Journal of King Saud University – Computer and Information Sciences*, 32(6):730-740, Published by Elsevier B.V. <https://doi.org/10.1016/j.jksuci.2018.08.008>.
- (12) **Ojo, O.E.**, Iyadi, C.O., Oluwatope, A.O. and Akinwale, A.T. (2020). AyoPeer: The adapted ayo-game for minimizing free riding in peer-assisted network. *Peer-to-Peer Networking and Applications*, **13(5)**:1672–1687, Published by Springer Nature. . <https://doi.org/10.1007/s12083-020-00913-6>.
- (13) Olorunfemi, T. O., Oloyede , O., **Ojo , O. E.**, and Oyeniran, E.. (2020). SEN-Iot: A Smart Emergency Notification System Suitable for Developing Countries using Internet of Things. *International Journal of Computer (IJC)*, 39(1), 36-50, Published by Global Society of Scientific Research and Researchers. Available online at <https://ijcjournal.org/index.php/InternationalJournalOfComputer/article/view/1682>
- (14) **Ojo, O.E.**, Oluwatope, A.O. & Ajadi, S.O. (2021). A reliable peer-to-peer streaming protocol in low-capacity networks. *Peer-to-Peer Networking and Applications*, **14(2)**: 559–584 Published by Springer Nature, <https://doi.org/10.1007/s12083-020-01002-4>.

(ii) **Journals Articles Accepted for Publication**

- (15) Babatoundé O. Simon Biaou, Ayodeji O. Oluwatope, Helen O. Odukoya, Ajiboye Babalola, **Oluwafolake E. Ojo** and Eric Herbert Sossou. Ayo Game Approach to Mitigate Free Riding in Peer-to-Peer Networks. *Journal of King Saud University – Computer and Information Sciences*.

(iii) **Edited Conference Proceedings**

- (1) **Olayiwola, O. E.** and Oluwatope, A. O. (2014) : Packet-level Simulation of Real-Time Video in Slow-Speed environment using NS-3. *Proceeding of the IASTED African Conference*, Botswana, Sept 1-3, 2014, 148-153. Published by International Association of Science and Technology for Development (IASTED), Botswana.
- (2) **Ojo O. E.**, Oluwatope, A. O. and Oyegunle M. A. (2015): An Active Resource Allocation Model for Multimedia Cloud. **Proceedings of 1st International Conference on Applied Information Technology (AIT 2015)**, FUNAAB, Nigeria, October 7-9, 2015, 159-164. Published by Nigeria Computer Society, Ogun State Chapter and Department of Computer Science, Federal University of Agriculture, Abeokuta, Nigeria.
- (3) **Ojo, O.** Oluwatope, A. and Ogunsola, O. (2015): UStream: Ultra-metric Spanning Overlay Topology for Peer-to-Peer Streaming Systems. **Proceedings of the 2015 IEEE International Symposium on Multimedia (ISM-2015)**, Miami, Florida, USA., Dec 14-16, 2015, 601-604. Published by IEEE, USA.
- (4) **Ojo, O. E.** Oluwatope, A. O. and Ajadi, S. O. (2016): Formal Analysis and Verification of UStream. **Proceedings of 10th International Conference on ICT Applications (AICTTRA-2016)**, Obafemi Awolowo University, Ile-Ife, Nigeria. Oct. 4-6, 2016, 119-123, Published by Application of Information and Communication Technologies to Teaching, Research and Administration (AICTTRA), Nigeria.
- (5) **Ojo, O. E.**, Oluwatope, A. O., & Ajadi, S. O. (2017). Dynamical Analysis of an Internet-Based Video System. *International Federation of Automatic Control (IFAC)-Papers Online*, Control Conference Africa (CCA) Johannesburg, South Africa, December 7-8, 2017, 50(2), 221-226,

10. MAJOR CONFERENCES ATTENDED WITH PAPERS READ

- (i) 1st International Conference on Developmental Sciences and Technologies, FUNAAB, Nigeria, August 27-30, 2019.
- (ii) 1st Control Conference Africa (CCA) Johannesburg, South Africa, December 7-8, 2017.
Paper Read: Dynamical Analysis of an Internet-Based Video System.
- (iii) 10th International Conference on ICT Applications (AICTTRA-2016), O.A.U., Nigeria, October 4-6, 2016. Paper Read: Formal Analysis and Verification of UStream.
- (iv) 1st International Conference on Applied Information Technology (AIT 2015), FUNAAB, Nigeria, October 7-9, 2015. Paper Read: An Active Resource Allocation Model for Multimedia Cloud.
- (v) 26th International Conference of Nigeria Computer Society held in Ondo State, Nigeria, July 22-24, 2015.
- (vi) 25th International Conference of Nigeria Computer Society held in Enugu State, Nigeria, July 23-25, 2014. Paper Read: Design and Implementation of an Ultra-metric Spanning Based Peer-To-Peer Live Video Streaming Architecture.
- (vii) International Workshop on “Theory and Application of Constraint-based Modeling, Including Human Computer Interaction (HCI).” Organized by Computer Science & Engineering Department, OAU, Ile-Ife & the African languages Technologies Initiative (ALT-i), August 8-19, 2011.
- (viii) International Conference on Technology as a Driving Force in Attaining Millennium Development Goals, Organized by TEKCONF, Obafemi Awolowo University, Ile-Ife, Nigeria, September 6-8, 2010

11. STUDENTS SUPERVISION

- a. **UNDERGRADUATE** – 34 (COMPLETED), 7(ON-GOING).

b. **POSTGRADUATE** – (COMPLETED – 1 M.Sc., 2 PGD , 1 MICT) , (ON-GOING – 4 M.Sc., 2 MICT)

12. EXTRA CURRICULA ACTIVITIES

Photography, Dancing and Travelling.

13. NAMES AND ADDRESSES OF THREE REFEREES

(i) Prof. A. T. Akinwale,

Department of Computer Science,
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Ogun State, Nigeria.

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(ii) Prof O. Folorunso

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(iii) Prof. A. O. Oluwatope

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Obafemi Awolowo University,
Ile-Ife, Nigeria.

Email: aoluwato@oauife.edu.ng.



Signature

22/09/2021

Date