

CURRICULUM VITAE

- (i) Full name - IORLIAM Aamo
- (ii) Date of birth - 13th February, 1986
- (iii) Nationality - Nigerian
- (iv) State of Origin and LGA - Benue, Ushongo
- (v) Permanent Home Address - Opp. Miva Rice, Makurdi
- (vi) Postal Address - Department of Mathematics/Computer Science, Benue State University, P.M.B. 102119, Makurdi, Nigeria

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- (vii) Marital Status - Married
- (viii) Number and Ages of Children - 2, 4 years and 1 year

(ix) Educational Institutions attended with dates

- a) University of Surrey, GU2 7XH, UK 2013-2016
- b) Coventry University, CV1 5FB, UK 2011-2012
- c) Benue State University, Makurdi, Nigeria 2004-2009
- d) N.K.S.T. College, Mkar, Nigeria 1996-2002
- e) Lessel Int. Nur. & Pri. Sch., Nigeria 1990-1996

(x) Academic Qualifications Obtained with Dates

- a) Ph.D. in Computer Science 2016
Thesis Title: Application of Power Laws to Biometrics, Forensics and Network Traffic Analysis
Supervisors: Prof. Anthony T. S. Ho, Dr. Norman Poh and Dr. Shujun Li
- b) M.Sc Forensic Computing 2012
Distinction
Thesis Title: Forensics for Virtual Meeting Systems
- c) B.Sc (Hons) Computer Science 2009
Second Class Upper Division (2.1)
Thesis Title: Development of Instant Messenger: A Case Study of Department of Mathematics/Computer Science, Benue State University, Makurdi.
- d) WASSC 2002
- e) FSLC 1996

(xi) Computer Literacy and ICT Compliance

- a) Programming Languages: BASIC, Pascal, C/C++, Java, SQL
- b) Statistical Tools: MATLAB, SPSS
- c) Type Setting/Visualisation: LATEX, Open Office, Microsoft Office, MS Excel
- d) Forensic Software: FTK Imager

- e) IDEs: NetBeans, MS Visual Studio
- f) Platforms: Windows, Linux, Mac OS

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Work Experience

- a) Lecturer, Benue State University 2010- Present
I lecture B.Sc and M.Sc Computer Science students at this university. I also carry out research and produce research papers.
- b) Visiting Lecturer, University of Agriculture, Makurdi 2017- Present
I lecture B.Sc and M.Sc Computer Science students at this university. I also carry out research and produce research papers.
- c) M.Sc Student Teaching Assistant, University of Surrey 2015-2016
COMM050: Information Security for Business and Government. I assisted Prof. Anthony T S Ho to teach the M.Sc students. I also marked and sent feedback comments to the students.
- d) PhD Student Representative, University of Surrey 2014- 2016
Represented PhD Students of the Secure Systems Group, Department of Computer Science, University of Surrey.
- e) System Analyst, Abia State University, Uturu 2009-2010
Setup new computers and helped programmers during system development.
- f) Software Developer, Panet Technologies Makurdi 2007-2009
Coded using J2SE, J2EE for standard and enterprise applications, respectively. Developed portals for banks and schools.
- g) SS3 Mathematics Teacher, Mbaayam Day Secondary School 2004-2006
Taught Mathematics for the senior students.

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Committees/University Service

- (i) Statistics Examination Officer 2017-2018
- (ii) Committee Member to Investigate Suspected Fraud in Payment of Students' User Charges in BSU, Makurdi 2018

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Publications

- a) Project/Dissertation/Thesis/Books
 - i. PhD Thesis: Application of Power Laws to Biometrics, Forensics and Network Traffic Analysis
 - ii. M. Sc Thesis: Forensics for Virtual Meeting Systems
 - iii. B. Sc Thesis: Development of Instant Messenger: A Case Study of Department of Mathematics/Computer Science, Benue State University, Makurdi.
 - iv. Book: Fundamental Computing Forensics for Africa -A Case Study of the Science in Nigeria, Accepted for publication at Springer International Publishing AG, Gewerbstrasse 11, 6330 Cham, Switzerland.

b) Papers

- ✓ **A. Iorliam** and A. James, "Fraudulent Activities Using Virtual Meetings," *International Journal on Computer Science and Engineering (IJCSE)*, vol. 5, no. 5, pp. 409-421, May 2013-
<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.309.7453>.
- ✓ **A. Iorliam** and E. Ode "The Impact of Social Network Usage on University Students Academic Performance: A Case Study of Benue State University Makurdi, Nigeria," *International Journal on Computer Science and Engineering (IJCSE)*, vol. 6 No.07, pp. 275-279, Jul 2014-
<http://www.enggjournals.com/ijcse/doc/IJCSE14-06-07-099.pdf>.
- ✓ **A. Iorliam**, A.T.S. Ho, N. Poh and Y.Q. Shi, "Do Biometric Images Follow Benford's Law?" in 2nd International Workshop on Biometrics and Forensics (IWBF2014), Malta, 27-28th March, 2014.
- ✓ **A. Iorliam**, A. T. S. Ho, and N. Poh, "Using Benford's Law to Detect Jpeg Biometric Data Tampering" *Biometrics 2014*, London. 2014-
http://elsevier.conference-services.net/resources/247/3839/pdf/BIOM2014_0012.pdf.
- ✓ **A. Iorliam**, A.T.S. Ho, N. Poh, S. Tirunagari, and P. Bours, "Data Forensic Techniques Using Benford's Law And Zipf's Law For Keystroke Dynamics" in 3rd International Workshop on Biometrics and Forensics (IWBF2015), Norway, 3rd-4th March, 2015.
- ✓ **A. Iorliam**, A.T.S. Ho, A. Waller, and X. Zhao, "Using Benford's Law Divergence and Neural Networks for Classification and Source Identification of Biometric Images" Springer, 2016.
- ✓ **A. Iorliam**, S. Tirunagari, A.T.S. Ho, S. Li, A. Waller, and N. Poh, "Flow Size Difference" Can Make a Difference: Detecting Malicious TCP Network Flows Based on Benford's Law" arXiv preprint arXiv:1609.04214, 2016.
- ✓ **A. Iorliam**, A.T.S. Ho, N. Poh, X. Zhao, and Z. Xia, "Benford's Law for Classification of Biometric Images," Book Chapter, IET Book "User-Centric Privacy and Security in Biometrics," Edited by Claus Vielhauer, 2017.
- ✓ S. Tirunagari, N. Poh, D. Windridge, **A. Iorliam**, N. Suki, and A.T.S. Ho "Detection of face spoofing using visual dynamics" *IEEE Transactions on Information Forensics and Security*, 10(4):762-777, 2015.
- ✓ N. Poh, N. Suki, **A. Iorliam** and A.T.S. Ho, "Anti-forensic resistant likelihood ratio computation: A case study using fingerprint biometrics" in *Proceedings of the 22nd European Signal Processing Conference (EUSIPCO)*, pages 1377-1381, 2014.
- ✓ S. Tirunagari, D. Abasolo, **A. Iorliam**, A.T.S. Ho, and N. Poh "Using Benford's Law to Detect Anomalies in Electroencephalogram: An Application to Detecting Alzheimer's Disease" in *IEEE International Conference on Computational Intelligence in Bioinformatics and Computational Biology (IEEE CIBCB 2017)*, 2017.
- ✓ **A. Iorliam**, and F.C. Shangbum "On the Use of Benford's Law to Detect JPEG Biometric Data Tampering" *Journal of Information Security*, 8:240-256, 2017.
- ✓ **A. Iorliam**, M. Atu, and S.I. Yahaya "Airtime Credit Banking: From two Applications to One Application" *Journal of Computer and Communications*, 5, 2017.

(xv) **Teaching Experience**

- a) Postgraduate Courses:
 - i. Seminar, Bioinformatics, Digital libraries, Operating System, System Analysis and Design
- b) Undergraduate Courses
 - i. Introduction to computer science, Object Oriented programming, Computer graphics, System Programming, Simulation and Modeling, C++, Pascal, System Analysis and Design

(xvi) **Presentations/Examiner/Awards**

- i. **Two Day Workshop:** 2017 Staff/Students Research and Career Mentoring, Makurdi
- ii. **Speaker:** Biometrics 2014, QE II Conference Centre, London
- iii. **Poster Presentation:** International Workshop on Biometrics and Forensics (IWBF2014), Malta
- iv. **Examiner:** External examiner for ND and HND Computer Science students at Nigerian Army Institute of Technology & Environmental Studies (NAITES), Makurdi, 2017
- v. **Award:** Top 5 out of 8000 StartUp Nigeria Winner, 2018

(xvii) **Extra-Curricular Activities**

- i. Reading, Watching Football

(xviii) **Referees**

- i) **Prof. Anthony T S Ho (PhD Supervisor)**
Department of Computer Science
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- ii) **Mrs. Pauline Atser**
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- iii) **Mr. Tsav Francis**
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