OYELADE Olanrewaju Jelili, PhD

BSc(Combined Hons) Computer Science and Mathematics, MSc, PhD Computer Science

PERSONAL DATA

Computer and Information Sciences Department
Covenant University, Km 10, Idiroko Road, Ota
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jelili.oyelade@gmail.com
Rhgate: https://www.researchgate.net/profile/Jelili_Oyelade

Date of Birth: August 3rd, 1970
Place of Birth: Gbongan, Osun State
Local Government: Ayedaade
State of Origin: Osun
Nationality: Nigerian
Marital Status: Married
Number of Children: Four(4)
Address: Duplex A10, Covenant University Staff Quaters.
Mobile Phone: +234-08035755778

Institution Website: http://covenantuniversity.edu.ng/Profiles/Oyelade-Olanrewaju-Jelili
Google Scholar: https://scholar.google.com/citations?user=oj6Uky4AAAAJ&hl=en
Orcid ID: orcid.org/0000-0002-5476-4992
Present Position: Associate Professor

EDUCATION

1992-1998	B. Sc (Combined Hons) Computer Science with Mathematics, Obafemi Awolowo University, Ile-Ife, Nigeria.
2001-2004	M. Sc Computer Science, Obafemi Awolowo University, Ile-Ife, Nigeria.
2004-2012	Ph.D Computer Science, Covenant University, Ota, Nigeria.

POSITIONS AND EMPLOYMENT

2004 – 2007	Assistant Lecturer, Covenant University, Ota
2007 – 2010	Lecturer II, Covenant University, Ota
2010 – 2013	Lecturer I, Covenant University, Ota
2013 – 2016	Senior Lecturer, Covenant University, Ota
2016 - To date	Associate Professor, Covenant University, Ota

TECHNICAL EXPERIENCE

- **Duration of Teaching experience in the University**: 12 years and Six months
- Chair, Curriculum Committee, Department of Computer and Information Sciences.
- Coordinator, Student Industrustrial Working Experience Scheme, Department of Computer and Information Sciences.
- 400 Level (Computer Science) Academic Adviser.

REASEARCH INTEREST

My research interest are in Computational Biology, Modeling and Simulation, Clustering, and Algorithm Design with emphasis on:
- Signalling and Metabolic pathways in *plasmodium falciparum*

INTERNATIONAL RESEARCH LINKAGES/COLLABORATIONS

- Prof. Roland Eils, Dr. Rainer Koenig and Dr. Benedikt Brors, German Cancer Research Centre (DKFZ), Heidelberg, Germany and University of Heidelberg, Heidelberg, Germany.

TEACHING INTEREST

Presently what I am teaching at Covenant University which covers most of my teaching interests. These include:

Undergraduate level:
- Object Oriented Design and Programming in C++
- Numerical Computation
- Theory of Computing
- Data Structure and Algorithm
- Analysis of Algorithm
- Computer Graphics and Visualization
- Compiler Design
- Modelling and Simulation

Postgraduate level:
- Object-Oriented Programming
- Advanced Compiler Construction
- Advanced Computer Algorithm
- Introduction to Computation
- Bioinformatics II
- Computational Molecular Biology.

Other teaching interest include: Cryptography, Operating System, Queueing System, System Analysis and Design, Digital signal processing, Artificial Intelligent and Technology and Computer Architecture.

MEMBERSHIP OF LEARNED SOCIETIES

(i)   Member, International Society for Computational Biology (ISCB)- Student Council
(ii) Member, Africa Society for Bioinformatics and Computational Biology (ASBCB)
(iii) Member, Computer Profession of Nigeria (CPN)
(iv) Member, Nigeria Computer Society (NCS)
(v)   Member, Nigeria Society of Bioinformatics and Computational Biology (NISBCB)

CREATIVE WORK

(1)   *Computer Skills*
    (i)   **Programming Languages**
- FORTRAN
- PASCAL
- Visual BASIC
- C/ C++
- JAVA, JAVA Script
- MatLab/R packages
- HTML/PHP/XML
- Python/Perl

    (ii) **Operating Systems**
- Windows operating system
- Linux: Suse, Ubuntu etc.

PRESENT EMPLOYMENT, STATUS, SALARY AND EMPLOYER

Teaching, Researching and Community development
Associate Professor of Computer Science, Group Leader, The Computational Oncology and Network Modelling Division, Covenant University Bioinformatics Research(CUBRe),
CUASS 13/01
Covenant University, Ota, Nigeria

COMMUNITY DEVELOPMENT

- Examination Officer – 2012-2013 (Department of Computer and Information Sciences, Covenant University, Ota, Nigeria.)
- Program Coordinator – Computer Science- 2013-2014 (Department of Computer and Information Sciences, Covenant University, Ota, Nigeria.)
- Chairman, Curriculum Committee – 2014- 2016 (Department of Computer and Information Sciences).
- Coordinator, Student Industrustrial Working Experience Scheme- 2014- 2016, Department of Computer and Information Sciences.
- Member, Quality Assurance and Academic Standard- 2013-2014, Covenant University.
- 400 Level (Computer Science) Academic Adviser.

o   Member, Internally Generated Revenue (IGR) Committee, College of Science and Technology.
o   PG Coordinator – 2015-todate, Department of Computer and Information Sciences, Covenant University.
o   Group Leader/Lead Researcher, Computational Oncology and Network Modelling (Bioinformatics research Cluster).

POSTGRADUATE SUPERVISION, EXAMINATION AND ASSESSMENT

- **Supervisor**, **MSc. Thesis:** *Metabolic Network Analysis of Tubercle Bacillus (Tuberculosis)*, Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria.
- **Supervisor**, **MSc. Thesis:** *Application of Hidden Markov Models in the analysis of Gene Expression Data*, Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria.
- **Supervisor**, **MSc. Thesis:** *Clustering of the Protein interaction network in Plasmodium falciparum*, Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria.
- **Supervisor**, **MSc. Thesis:** *Computational Identification of Metabolic Pathways of Plasmodium falciparum using k-shortest paths Algorithm*. Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria.
- **Supervisor**, **MSc. Thesis:** *Ensemble clustering algorithms : An experimental evaluation on gene expression data*, Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria.
- **Supervisor**, **MSc. Thesis:** *In-Silico Knockout Screening of Plasmodium falciparum Genes using Petri Nets*. Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria.
- **Co-Supervisor**, **PhD. Thesis:** *Computational Identification of Host-Parasite Protein Interactions in the Invasion of the Human Erythrocytes by Plasmodium falciparum*, Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria. – ***In Preparation***
- **Assessor, PhD. Thesis:** *A class of block multistep methods for solving general third-order ordinary differential equations*, Department of Mathematics, College of Science and Technology, Covenant University, Ota, Nigeria, August, 2015.
- **Examiner, PhD Thesis:** *Analytical Study and Generalisation of some Stock Option Valuation Models*, Department of Mathematics, College of Science and Technology, Covenant University, Ota, Nigeria
- **Examiner, PhD Thesis:** *A Fuzzy-Oriented Framework for service ranking and selection in cloud e-marketplaces*, Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria
- **Assessor, PhD. Thesis:** *Computational analysis of Anopheles Gambiae Metabolism to facilitate insecticidal target and complex resistance mechanism discovery*, Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria

- **Assessor, MSc. Thesis:** *Fuzzy mining student decision support system for determining the effect of socio-economic factors on academic performance*, Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria.
- **Assessor, MSc. Thesis:** *A voice-based e-examination expert system for open and distance learning*, Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria
- **Assessor, MSc. Thesis:** *An Ant colony optimization algorithm for time tabling problem*, Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria

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SELECTED SUPERVISED UNDERGRADUATE PROJECTS

- Modelling metabolic pathway using petrinets
- Information security through steganography and cryptography
- Application of colored petrinets in modelling pentose phosphate pathway in plasmodium falciparum
- The design and implementation of an automated drug prescription system
- Design and implementation of a pharmacy inventory management system
- Development of text to speech applications
- E-learning system for online class tutorials
- Design and implementation of an online admission system
- Design and implementation of a virtual classroom
- Development of a web-based telecoms portal
- Design and implementation of an electronic commerce application
- Development of an intranet-based email system

GRANTS AND FELLOWSHIPS

Research:

2015-2017   Covenant University Center for Research and Innovation Discovery
[CUCRID RG 034.04.15/FS]
Constructing Metabolic Pathways in the Malaria Parasite- *Plasmodium falciparum*. **P.I.**, (N3,119,950.00)

REVIEWING ACTIVITY

Academic Journals
- Bioinformatics and Biology Insights
- Nigeria Computer Society Journal

- Cancer Bioinformatics
- Covenant Journal of Informatics and Communication Technology
- Health Informatics

CONFERENCE CHAIR OR DISCUSSION LEADER

- **Session Chair**, 6th IEEE International Conference on Adaptive Science and Technology, Covenant University, Ota, Nigeria, 29-31 October, 2014.
- **Co-chair**, 7th Annual Conference, Nigerian Institute of Medical Research, Lagos, Nigeria, 8th – 10th, November, 2016.

SCHOLARSHIP

Publications
Journal Articles

1. Omolehin J.O., **Oyelade O. J.** and Oladipupo O. O. (2005): *Application of Fuzzy Logic in Decision Making on Students' Academic Performance*., Bulletin of Pure and Applied Sciences (An International Research Journal of Sciences) Vol 24E (No. 2) 2005: P. 381-387, Delhi, Indian.
   http://scholar.google.com/citations?hl=en&user=oj6Uky4AAAAJ

2. Omolehin J.O., Oladipupo O. O., **Oyelade O. J.** and K. Rauf (2006): *Effect of Update Anomalies on Herbarium Database Disk Assess*, ABACUS, 33(2A), 21-26.

3. Omolehin J.O., **Oyelade O. J.** and Oladipupo O. O. (2006): *A comparison of Fuzzy and Deterministic Models for assessing students' Performance*., Nigerian Journal of Pure and Applied Sciences, Faculty of Science, University of Ilorin, Ilorin, Nigeria.

4. Omolehin J.O., Oladipupo O. O. And **Oyelade O. J.** (2006): *Normalization of plant Database of a Herbarium*., Bulletin of Pure and Applied Sciences (An International Research Journal of Sciences), Delhi, Indian. Vol 22 (No. 1)

5. S. Fatumo and **Oyelade O. J.** (2007): *Design and Implementation of an Online Medical Record System* ., International Journal of Natural and Applied Sciences. Vol 3(1). 11-21.
   http://www.ajol.info/index.php/ijonas/article/view/36134

6. **Oyelade O. J**, Fatumo S.A, Azeta A. A. and Ayo C. K (2009): "*Development of a Mobile Airline Reservation System*", Journal of Computer Science and its Application Vol. 16, No. 1.

7. **Oyelade, O. J.**, Oladipupo, O. O., and Obagbuwa, O. O. (2010): "*Application of k-means clustering algorithm for prediction of Students' Academic performance*", International Journal of Computer Science and Information Security. Vol 7(1). 292-295.
   http://arxiv.org/abs/1002.2425

http://scholar.google.com/citations?hl=en&user=oj6Uky4AAAAJ

8. Aborisade, D. O. and **Oyelade, O. J**. (2010): "*HierarchyMap: A Novel Approach to Treemap Visualization of Hierarchical Data*". Global Journal of Computer Science and Technology. Vol. 9(5). 77-81.

9. Oladipupo, O. O. and **Oyelade, O. J.** (2010) "*Knowledge Discovery from Students' Result Repository: Association Rule Mining Approach*" International Journal of Computer Science and Security, Vol. 4(2). 199-207 .
    http://eprints.covenantuniversity.edu.ng/772/
    http://scholar.google.com/citations?hl=en&user=oj6Uky4AAAAJ

10. **Jelili Oyelade,** Ezekiel Adebiyi, Itunu Ewejobi, Benedikt Brors and Roland Eils.(2011) "*Computational Identification of Signalling Pathways in Plasmodium falciparum*". Infection genetics and evolution journal of molecular epidemiology and evolutionary genetics in infectious diseases - Elsevier, Vol. 11(4) , 755-764 **(Scopus,   ISI index IF: 3.264)**. http://www.sciencedirect.com/science/article/pii/S1567134810003072
    http://www.ncbi.nlm.nih.gov/pubmed/?term=oyelade+J
    https://manuscriptpro.com/profile/author/Oyelade-Jelili

11. Victor Osamor, Ezekiel Adebiyi , **Jelilli Oyelade** and Seydou Doumbia(2012) "*Reducing the time requirement of k-means Algorithm*:", PloS One Journal Vol. 7(12) **(Scopus, ISI index, IF: 4.25)**.
    www.plosone.org/article/info:doi/10.1371/journal.pone.0049946
    http://www.ncbi.nlm.nih.gov/pubmed/?term=oyelade+J;   http://www.scopus.com/record/display.uri?eid=2-s2.084871168217&origin=AuthorNamesList&txGid=0

12. Oladipupo O. O., **Oyelade O. J.** and Aborisade D. O.(2012) "Application of Fuzzy Association Rule Mining for Analysing Students Academic Performance" International Journal of Computer Science Issues, Vol. 9(6) 216-222 **.**
    http://ijcsi.org/papers/IJCSI-9-6-3-216-223.pdf

13. Obagbuwa I. C. , **Oyelade O. J.**, Oladipupo O. O. Aborisade D. O. and Ewejobi I. T. (2012)"*Designed and Implementation of Meeting Document Management and Retrieval System*" Journal of Computer Science and Information Security, Vol. 6(6), 376-386. **1:5**

14. Aborisade D. O., **Oyelade, O. J**., Obagbuwa, I. C., Oladipupo, O. O., Obembe O. O. and Ewejobi, I. T: (2013) "*Comparative Analyses between Split and HierarchyMap Treemap Algorithms for Visualizing Hierarchical Data*", International Journal of Computer Science and Information Security Vol. 11(3), 131-142.

15. **Oyelade Olarenwaju. J**, Alaje Daniel T and Fatumo Segun A: (2013) "*Implementing A Decision-Making Model for a small scale production company*", International Journal of Basic & Applied Sciences Vol.13(2) 1-6
    http://www.ijens.org/Vol_13_I_02/105803-1302-2828-IJBAS-IJENS.pdf

16 **Oyelade O. J.** and Fatumo Segun (2013): **"***A Two-Phase Dynamic programming Algorithm Tool for DNA sequences*", Covenant Journal of Physical and Life Sciences (CJPL) Vol. 1, No. 1 (Maiden Edition), August, 2013

17   Itunuoluwa I., **Oyelade, O.J.** and Oladipupo, O. O. (2014): "*Design and Implementation of Text To Speech Conversion for Visually Impaired People*" International Journal of Applied Information Systems (IJAIS) – ISSN : 2249-0868. Volume 7– No. 2 – doi: 10.5120/ijais14-451143
http://www.ijais.org/archives/volume7/number2/623-1143
Database Indexes: http://www.ijais.org/academic-databases-and-indexes

18   **Jelili Oyelade**, Itunuoluwa Isewon, Olufunke Oladipupo, and Abolaji Famuyiwa.(2014) "*Implementation of Secured Message Transmission using DES and RSA Cryptosystem*", Covenant Journal of Information and Communication Technology, Vol. 2, No. 2, 75-88.

19   **Jelili Oyelade**, Jumoke Soyemi, Itunuoluwa Isewon, Obembe, O. O.(2015) "Bioinformatics, Healthcare Informatics and Analytics: An imperative for Improved Healthcare system". International Journal of Applied Information Systems (IJAIS). – ISSN : 2249-0868. Volume 8 – No. 5., 1-6.
Database Indexes: http://www.ijais.org/academic-databases-and-indexes

20   Itunuoluwa Isewon, **Jelili Oyelade**, Benedikt Brors, Ezekiel Adebiyi(2015): *In-silico* Gene Regulatory Network of the Maurer's Cleft Pathway in *Plasmodium falciparum.* Evolutionary Bioinformatics. Vol. 11, 231-238 **(ISI Index, Scopus, IF = 1.452)**
http://www.ncbi.nlm.nih.gov/pubmed/?term=oyelade+J
https://manuscriptpro.com/profile/author/Oyelade-Jelili

21. **Jelili Oyelade**, Itunuoluwa Isewon, Sylvia Mab-Kalu and Solomon Rotimi (2015): "Simulation and Analysis of Pentose Phosphate Pathway in *Plasmodium falciparum* using Colored Petri Nets Model". Journal of Computer Science and its Applications. Vol. 22(2), 43-54.

22 Mulder NJ, Adebiyi E, Alami R, Benkahla A, Brandful J, Doumbia S, Everett D, Fadlelmola FM, Gaboun F, Gaseitsiwe S, Ghazal H, Hazelhurst S, Hide W, Ibrahimi A, Jauferally Fakim Y, Jongeneel CV, Joubert F, Kassim S, Kayondo J, Kumuthini J, Lyantagaye S, Makani J, Mansour Alzohairy A, Masiga D, Moussa A, Nash O, Ouwe Missi Oukem-Boyer O, Owusu-Dabo E, Panji S, Patterton H, Radouani F, Sadki K, Seghrouchni F, Tastan Bishop Ö, Tiffin N, Ulenga N; H3ABioNet Consortium, Adebiyi M, Ahmed AE, Ahmed RI, Alearts M, Alibi M, Aron S, Baichoo S, Bendou H, Botha G, Brown D, Chimusa E, Christoffels A, Cornick J, Entfellner JB, Fields C, Fischer A, Gamieldien J, Ghedira K, Ghouila A, Ho Sui S, Isewon I, Isokpehi R, Dashti MJ, Kamng'ona A, Khetani RS, Kiran A, Kulohoma B, Kumwenda B, Lapine D, Mainzer LS, Maslamoney S, Mbiyavanga M, Meintjes A, Mlyango FE, Mmbando B, Mohammed SA, Mpangase P, Msefula C, Mtatiro SN, Mugutso D, Mungloo- Dilmohammud Z, Musicha P, Nembaware V, Osamor VC, **Oyelade J**, Rendon G, Salazar GA, Salifu SP, Sangeda R, Souiai O, Van Heusden P, Wele M.(2016): **H3ABioNet, a Sustainable Pan-African Bioinformatics Network for Human Heredity and Health in Africa.** Genome Res.Feb;26(2):271-7. doi: 10.1101/gr.196295.115. Epub 2015 Dec 1. **(ISI Index, Scopus, IF = 14.63)** http://www.ncbi.nlm.nih.gov/pubmed/26627985

23   **Jelili Oyelade**[1,*+], Olufunke Oladipupo[1+], Itunuoluwa Isewon[1] and Ibidun Obagbuwa (2016):Soft Clustering Technique: On Academics Performance Evaluation. Covenant Journal of Life and Physical Sciences, Vol 4 No. 1, 11-20.

24   **Jelili Oyelade**, Itunuoluwa Isewon and Ifeoluwa Okunoren.(2016): Colored Petri Net: It application to Sucrose Biosynthesis Pathway in *Plasmodium falciparum*. Covenant University Journal of Informatics and Computer Science, Vol 4 No. 1, 15-27. http://journals.covenantuniversity.edu.ng/index.php/cjict/article/viewFile/214/196

25   **Jelili Oyelade,** Itunuoluwa Isewon, Ifeoluwa Okunoren and Solomon Rotimi.(2016): "Modeling of the Glycolysis Pathway in *Plasmodium falciparum* using Petri Nets", Bioinformatics and Biology Insights, Vol 10, 49-57, (**ISI Index, Scopus**). http://www.ncbi.nlm.nih.gov/pubmed?Db=pubmed&Cmd=DetailsSearch&Term=27199550%5Buid%5D;   https://manuscriptpro.com/profile/author/Oyelade-Jelili

.26   Efejiro Ashano, Itunuoluwa Isewon, **Jelili Oyelade**, Ezekiel Adebiyi (2016): Cluster analysis of *Plasmodium* RNA-seq time-course data identifies stage-specific co-regulated biological processes and regulatory elements, F1000Research, online, (**ISI Index, Scopus**). http://f1000research.com/articles/5-1932/v1

27.   **Jelili Oyelade**[+], Itunuoluwa Isewon[+], Funke Oladipupo, Olufemi Aromolaran, Efosa Uwoghiren, Farida Ameh, and Moses Achas(2016). Clustering Algorithms: Their application to Gene Expression Data. Bioinformatics and Biology Insight (**ISI Index, Scopus**). Vol 10, 237-253. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5135122/

28.   Nicola J. Mulder, Ezekiel Adebiyi, Marion Adebiyi, Seun Adeyemi, Azza Ahmed, Rehab Ahmed, Bola Akanle, Mohamed Alibi, Don L. Armstrong, Shaun Aron, Efejiro Ashano, Shakuntala Baichoo, Alia Benkahla, David K. Brown, Emile R. Chimusa, Faisal M. Fadlelmola, Dare Falola, Segun Fatumo, Kais Ghedira, Amel Ghouila, Scott Hazelhurst, Iunu Isewon, Segun Jung, Samar Kamal Kassim, Jonathan K. Kayondo, Mamana Mbiyavanga, Ayton Meintjes, Somia Mohammed, Abayomi Mosaku, Ahmed Moussa, Mustafa Muhammd, Zahra Mungloo-Dilmohamud, Oyekanmi Nashiru, Trust Odia, Adaobi Okafor, Olaleye Oladipo, Victor Osamor, **Jellili Oyelade**, Khalid Sadki, Samson Pandam Salifu, Jumoke Soyemi, Sumir Panji, Fouzia Radouani, Oussama Souiai, Özlem Tastan Bishop(2017): "**Development of Bioinformatics Infrastructure for Genomics Research in H3Africa**". Global Heart Journal - Elsevier. (**ISI Index, Scopus, pubmed, IF: 0.713**). *In press*. https://www.ncbi.nlm.nih.gov/pubmed/28302555

29.   O. Oladipupo**,** J. Daramola, **O. Oyelade**, I. Afolabi " Analysis Of The Effect Of Class Attendance On Students' Academic Performance Using Association Rule Mining Technique" Asian Journal of Information Technology.(Scopus) *In press*

Accepted Paper(s)
Nil

Books Published
30**.**   **Oyelade, O. J**. "Internet Concept and Web Design" , National Open University, Nigeria. ISBN: 978-058-482-X, (187 pages). http://www.nou.edu.ng/NOUN_OCL/courses.htm

31**.**   **Oyelade, O. J**. "Operating System Design and Programming", National Open University, Nigeria. ISBN: 978-058-327-0, (154 pages).
http://www.nou.edu.ng/courses.htm

32**.**   **Oyelade, O. J.** "Signalling and Metabolic pathways in *plasmodium falciparum*", Lambert Academic Publising. ISBN: 978-3-8484-8872-8, (168 pages).
http://www.amazon.co.uk/Books/s?ie=UTF8&field-author=Jelili%20Oyelade&page=1&rh=n%3A266239%2Cp_27%3AJelili%20Oyelade

Conference Publication

33   O. Oladipupo**,** J. Daramola, **O. Oyelade**, I. Afolabi " Analysis Of The Effect Of Class Attendance On Students' Academic Performance Using Association Rule Mining Technique" EDULEARN14, 6th International Conference on Education and New Learning Technologies, Barcelona - 7th - 9th of July 2014. 10th May, 2014 published
http://library.iated.org/view/OLADIPUPO2014ANA **(ISI Index)**

34.   Olufunke Oladipupo**,** Olawande Daramola, **Jelili Oyelade**, Ibukun Afolabi (2015) "Improving Rural Healthcare Delivery in Nigeria using Distributed Expert System Technology" 15th European Conference on e-Government-ECEG 2015-01-06 University of Portsmouth, UK **(ISI Index)**
http://search.proquest.com/openview/f7da0a7882107d979a64c3a78d9485b9/1?pq-origsite=gscholar

35   **Jelili Oyelade**, Itunuoluwa Isewon and Ifeoluwa Okunoren (2015). "Colored Petri Net Modeling of the Sucrose Biosynthesis Pathway in *Plasmodium falciparum*". International Conference on African Development Issues(CUICADI), P. 23- 27.

36   Isewon, I., **Oyelade, J.**, Adebiyi, E., Brors, B.(2015). "Ensemble based Clustering of *Plasmodium falciparum* genes". International Conference on African Development Issues, (CUICADI), P. 16- 22.

37   Aliyu Muhammad+, Solomon Rotimi+, **Jelili Oyelade**, Itunuoluwa Isewon, Barbara Di Ventura, Roland Eils, Michael Lanzer, Benedikt Brors and Ezekiel Adebiyi(2016). "Assessment of *Plasmodium falciparum* RNA pseudouridylate synthase (putative) as novel drug target". 3rd International Conference on African Development Issues, (CUICADI) P. 151-161.

Manuscript Under Review

i)   **Jelili Oyelade,** Itunuoluwa Isewon, Trust Odia, Solomon Rotimi, Ezekiel Adebiyi. Protein Complex Detection from *Plasmodium falciparum's* Interactome using MCODE Algorithm**.** PlosOne Journal.

ii)   **Jelili Oyelade** and Itunuoluwa Isewon: Model-based clustering with Hidden Markov Models in the analysis of Gene expression data. Bioinformatics and Biology Insights.

iii)   **Jelili Oyelade,** Itunuoluwa Isewon, and Olanrewaju Ogunbona "Computational Modelling of the Tricarboxylic Acid Cycle in Plasmodium falciparum: A Petri Net Approach.

Article(s) Currently Under Preparation

iv)   **Jelili Oyelade,** Itunu Isewon, Benedikt Brors and Ezekiel Adebiyi "Signalling pathways and RBCs invasion by the malaria parasite: A computational analysis".

v)   **Jelili Oyelade,** Ezekiel Adebiyi, Itunu Ewejobi and Benedict Brors "An Ensemble framework for small world clustering coefficient for protein-protein interaction networks in plasmodium falciparum".

vi)   **Jelili Oyelade,** Itunu Ewejobi, Benedikt Brors and Roland Eils, Ezekiel Adebiyi "Computational Identification of Metabolic Pathways in the Malaria Parasite, *Plasmodium falciparum"*

vii)   **Jelili Oyelade,** Ezekiel Adebiyi and Benedikt Brors. Hypotheses on Signaling pathways in the malaria parasite *Plasmodium falciparum.*

Book contribution

i.)   Ezekiel Adebiyi, Benedikt Brors, **Jelili Oyelade**, Itunu Isewona,Signalling pathways and RBCs invasion by the malaria parasite: A computational analysis. In the Blood Cell. To be edited by Terry Moschandreou. InTech Publisher

Academic Award(s)

i.)   Recipient: High impact award, Covenant University, 2011.

Refereed Conferenc e Proceedings

i)   J.O. Omolehin, **O.J. Oyelade,** and O.O. Oladipupo (2005): "Performance Comparison of Fuzzy model and Deterministic model to students' performance" ***Proceedings of the 24th Annual Conference of the Nigerian Mathematical Society***; pp.12: April 12-15, 2005 Olabisi Onabanjo University, Ago-Iwoye, Ogun State, **Nigeria**".

ii)   J.O. Omolehin, O.O. Oladipupo, and **O.J. Oyelade**(2005): "Effect of update anomalies on Herbarium Database Disk Access" ***Proceedings of the 24th Annual Conference of the Nigerian Mathematical Society***; pp.7: April 12-15, 2005 Olabisi Onabanjo University, Ago-Iwoye, Ogun State, **Nigeria**".

iii)   Adebiyi E. F. and **Oyelade O. J**.(2006): "A comparative analysis of existing oligonucleotides selection algorithms and optimal parallel oligos selection for large EST databases (Extended abstract)". *"Proceedings of the International Workshop and Conference on New Trends in the Mathematics and Computer Sciences with Applications to Real World Problems"* pp. 635-653., Covenant University, Ota. Nigeria.

iv)   **Oyelade, O. J.**, Adebiyi, E. F., Yah S.C., and Olaseinde G. I. Computational Identification of functional related gene in Malaria parasites. *Poster proceeding, ISMB 2008*

v)   Ewejobi, I., Adebiyi, E., Ekenna.C, Rebai, A., Koenig, R., Brors, B., Doumbia, S., **Oyelade, J.**, Osamor, V., Fatumo, S., Eils, R. and Lanzer, M.: "**The African Plasmodium falciparum database (afriPFdb)** *Poster proceeding, ECCB 2008*

vi)   Osamor, V, Adebiyi, E. F., **Oyelade, O. J.** and Seydou D.: Metric Matrices k-Means (MMkmeans) for clustering Malaria Microarray data. *Poster proceeding, ISMB 2008*

vii)   Osamor V.,   Adebiyi E., **Oyelade J.**, Doumbia S.**(**2008): Metric Matrices k-means (MMk-means) for Clustering Malaria Microarray Data. *Proceedings of the 16th International Conference on Intelligent Systems forMolecular Biology (ISMB 2008), Toronto, Canada* (*See Poster B48).*
http://www.iscb.org/uploaded/css/24/3195.pdf
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viii)   Chinedu S, Omonhinmin A, Dike I., Omotosho O., Osamor V., **Oyelade O**., Adebiyi E. (2008)*:* Species Level Characterisation in Thaumatococcudaniellii: Re-evaluating Morphorlogical Evidences via In-Silico Studies. *Proceedings of the 16th International Conference on Intelligent Systems forMolecular Biology (ISMB 2008), Toronto, Canada* (*See Poster C07)*
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Conferences /Workshops attended with dates

    (i)   24th National Conference of Nigeria Mathematical Society, Olabisi Onabanjo University, Ago-Iwoye, Ogun State, Nigeria, April 2005.

    (ii)   1st International Conference on Pattern Discovery in Biology, Covenant University, Ota, Ogun State, Nigeria. April 2005.

    (iii)   International Conference on New Trends in the Mathematical and Computer Sciences with Applications to Real World Problems, Covenant University, Ota. Ogun-State, Nigeria, June 2006.

    (iv)   2nd International Conference on Pattern Discovery in Biology, Covenant University, Ota, Ogun State, Nigeria. July 2009.

    (v)   Joint Conference on Bioinformatics of Infectious Diseases, University of Bamako, Mali, December 2009.

    (vi)   Wellcome Trust Advanced Course: WTAC Genomic Epidemiology in Africa, Malawi,6-11 May 2012 .

    (vii)   Trainer, H3Abionet, Bioinformatics Training workshop, Covenant University, Nigeria, 26 April – 21 May, 2014.

    (viii)   6th IEEE International Conference on Adaptive Science and Technology, Covenant University, Ota, Nigeria, 29-31 October, 2014.

Academic Linkages
    Membership of Professional bodies
(i)   Member, International Society for Computational Biology (ISCB)- Student Council
(ii)   Member, Regional Student Group (RSG), ISCBSC
(iii)   Member, Africa Society for Bioinformatics and Computational Biology (ASBCB)
(iv)   Member, Computer Profession of Nigeria (CPN)
(v)   Member, Nigeria Computer Society (NCS)

Current Research/Training Opportunity:
1. Computational Identification of Signalling and Metabolic Pathways in *Plasmodium falciparum.*
2. Constructing Metabolic Pathways using Linear and Non-linear path algorithms in the Malaria Parasite- *Plasmodium falciparum.*

REFERENCES

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