

# Curriculum Vitae

## Marion Olubunmi ADEBIYI, PhD

Date of Birth: June 8<sup>th</sup>,  
Place of Birth: Omu-Aran  
State: Kwara State  
Nationality: Nigerian  
Marital Status: Married  
Contact Address (Office): Department of Computer and Information Sciences, Covenant University, Ota  
Residential: Duplex 13, Professor Quarters, Covenant University, Ota  
Telephone Number: 08033853585  
E-mail Address: [marion.adebiyi@covenantuniversity.edu.ng](mailto:marion.adebiyi@covenantuniversity.edu.ng), [onlimarion@yahoo.com](mailto:onlimarion@yahoo.com)

### Section B. Education History

#### Schools/Institution attended

S/N	Degree Level	Type	Year	Institution
A	1 <sup>st</sup> Degree	B.Sc.	2000	University of Ilorin
B	2 <sup>nd</sup> Degree	M.Sc.	2008	Covenant University
C	3 <sup>rd</sup> Degree	Ph.D	2014	Covenant University
E	Other	NCE	1995	Kwara State College of Education, Oro.

### Section C: Working Experience

**Covenant University** 2006 – Till date  
Graduate Assistant 2006 – 2008  
Assistant Lecturer 2008 – 2012  
Lecturer II 2012 – 2014  
Lecturer I 2014– Till date

#### Courses taught:

- ✓ Bioinformatics
- ✓ Use of Bioinformatics resources: tools, databases and software packages
- ✓ Sequence Alignment/ computational Methods for Drugs and insecticide resistance Mechanisms
- ✓ Data Communication and Networking
- ✓ Artificial Intelligence / Neural Networking
- ✓ Use of Library, Study Skills and Information Communication Technology I and II
- ✓ Database system, Design, implementation and management/ Data Warehousing
- ✓ Use of Software Packages
- ✓ Introduction to Computer Science/ Computer Appreciation
- ✓ Operating System

#### Computer Proficiency

- ✓ Perl Script, R (Intermediate), Python, Java and C
- ✓ Bioinformatics tool like Blast series, Modeler, netlogo. Toscape, Ensemble, cyMathematical/ statistical analyzing tool e. g SPSS and Matlab e. t. c
- ✓ D-Base management software:- SQL, MySQL, Sybase, Microsoft Access,
- ✓ Operating System:- MS-DOS; MS-Windows 95, Win 98, Win Me, Win 2000, Win XP and

Win 2003, Linux Red-hat, Linux Suze Enterprise Server, Mbutu

**Section D: Others Responsibilities in the Department & University**

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|------|--|----------------|
| i.   | Member, University ICT Committee                       | 2012 – to date |
| ii.  | Member, Board of Directors, CU Health Center           | 2014 – to date |
| iii. | Chairperson, Software Engineering Laboratory Committee | 2008 – to date |
| iv.  | Chairperson, Departmental Welfare Committee            | 2008 – to date |
| v.   | Level Adviser (100- 400 Levels)                        | 2007 – to date |

**Section E: Academic Publications**

**Books/Chapter in Books**

1. Ayo C.K., Ikhu-Omoregbe N.A, Osamor V.C., **Adebiyi M. O** (2011): Fundamentals of Computer Application. *Rehoboth Educational Publications international limited*, Lagos. ISBN 978978-917-275-7. 348 pages.
2. Segun Fatumo, **Marion Adebiyi**, Ezekiel Adebiyi (Kortagere, Sandhya) (2013): In Silico Models for Drug Discovery. Springer, *Methods in Molecular Biology*, Vol. 993, ISBN 978-1-62703-341-1.260 pages  
<http://www.springer.com/biomed/pharmaceutical+science/book/978-1-62703-341-1>

**Journal Articles**

3. Fatumo S.A, Adebiyi E.F, **Adebiyi M.O** and Ekenna C.P (2008). “An efficient graph based greedy algorithm for the analysis of metabolic network on its topology”. *The Journal of Computer Science and Its Application*, Vol. 15, No.1, pp. 14-21, 2008.
4. **Marion Adebiyi**, Segun Fatumo and Ezekiel Adebiyi (2009). “Computational Discovery of Drugs Resistance Mechanism(s) of the Malaria Parasite to Tetracyclines and Chloroquines”. *Journal of Computer Science and its Applications*,(An international Journal of Nigeria Computer Society), Nigeria. Vol 17. No 2 Dec, 2009.
5. Nelson N. Gichora, Segun A. Fatumo, Mtakai V. Ngara, Noura Chelbat, Kavisha Ramdayal, Kenneth B. Opap, Geoffrey H. Siwo, **Marion O. Adebiyi**, Amina El Gonnouni, Denis Zofou, Amal A. M. Maurady, Ezekiel F. Adebiyi, Etienne P. de Villiers, Daniel K. Masiga, Jeffrey W. Bizzaro, Prashanth Suravajhala, Sheila C. Ommeh, Winston Hide. (2010). “Ten Simple Rules for Organizing a Virtual Conference— Anywhere”. *PLoS Comput Biol* 6(2): e1000650 doi:10.1371/journal.pcbi.1000650, 2010.
6. Adebiyi, Ayodele A., Ayo, Charles K. and **Adebiyi Marion O** (2010).“Development of Electronic Government Procurement (e-GP) System for Nigeria Public Sector”. *International Journal of Electrical & Computer Sciences IJECS-IJENS* Vol. 10 No.6. pp. 74 – 84.  
<http://www.ijens.org/IJECS%20Vol%2010%20Issue%2006.html>
7. Ajayi A. A, **Adebiyi M. O**, Olasehinde G. I and Olutiola P.O (2010). “Purification of Cellulase obtained from Tomato fruits (*Lycopersicon lycopersicum* (L.) Karst) deteriorated by *Aspergillus Flavus* Linn”. *International Journal of Basic & Applied Sciences IJBAS-IJENS* Vol. 10 No. 05. pp. 1-5.
8. **Adebiyi Marion** and Akinboni Oluwafunmilayo (2011). “Design and development of an Intelligent Tutoring System “Scholastic tutor”. *International Journal of Current Research*. Vol. 3 No.11 pp. 126-130.  
<http://www.journalcra.com>.
9. **Adebiyi Marion** and Ogunlade Omotayo (2011). “Development of a Social Networking Site with a Networked Library and conference chat. *Journal of Emerging Trends in Computing and Information Sciences*. Vol. 2 No. 8 pp. 396 – 401. [http://www.cisjournal.org/journalofcomputing/Archive\\_August\\_2011.aspx](http://www.cisjournal.org/journalofcomputing/Archive_August_2011.aspx).

10. **Marion Adebisi**, and Stephen Adubi (2012) "Repository of Malaria Drugs and Insecticides Resistance", International Research Journal of Computer Science Engineering and Applications, Vol 1, No. 3. pp. 169–175.
- 11 A.A. Adebisi, C.K. Ayo, **M.O Adebisi**, and S.O. Otokiti (2012). An Improved Stock Price Prediction using Hybrid Market Indicators. Afr J. of Comp & ICTs. Vol 5, No. 5. pp. 124-135.
12. Adebisi Ayodele A., Alabi Esther, Ayo Charles K., and **Adebisi Marion O.** (2013), "An Empirical Investigation of the Level of Adoption of Mobile Payment in Nigeria", Afr J. of Comp & ICTs. Vol 6, No. 1. pp. 197-207.
13. Oluwakemi Rotimi, Oluwagbenga Oluwagbemi, Wisdom Iyanda-Joel, Elizabeth Omotosho, **Marion Adebisi**, Isaacson Adelani, Solomon Rotimi (2014), "Investigation of Angiotensin-converting enzyme inhibitory potential and allergenicity of Sesamum indicum Linn seed proteins by an in silico approach (LB541)", Federation of American Societies for Experimental Biology Journal (FASEB J), Vol.28, No.1, Supplement, LB541.
14. Fatumo Segun, Adoga Moses, Ojo Olujide, Oluwagbemi Olugbenga, Adeoye Tolulope, Ewejobi Itunuoluwa, **Adebisi Marion**, Adebisi Ezekiel, Bewaji Clement, Oyekanmi Nashiru. (2014), "Computational Biology and Bioinformatics in Nigeria", PLoS Computational Biology, Vol. 10, No. 4 , pp. 1 – 7.
15. Oluwagbemi Olugbenga, **Adebisi Marion**, Fatumo Segun, and Macintyre Geoff. (2014), "Paving the Way Towards a Successful and Fulfilling Career in Computational Biology". PLoS Computational Biology, Vol. 10, No. 5.

#### Refereed Conference Proceedings

1. **Owolabi, M., Fatumo, S.** Koenig, R., Schramm, G., Kranz, A-L, Eils, R, and Adebisi, E. (2007) Computational Discovery of Drug Resistance Mechanism(s) of the Malaria Parasite (*Plasmodium falciparum* (P.f))". Proc. International Conference on the Bioinformatics of African Pathogens and Disease Vectors (Bioinformatics for Africa), Nairobi, Kenya, May 28 – June 2, 2007.
2. **Adebisi M.** and Yah Clarence, (2009)"Computational Elucidation of *Plasmodium falciparum* Chloroquine Resistance (*Pfcr*) Mechanisms: an Intra-Erythrocytic Developmental Stage". Proc first African virtual Conference on Bioinformatics (Afbix'09). 19 – 20 Feb. 2009.
3. **Adebisi M.** and Yah Clarence, (2009)"*Plasmodium falciparum* Chloroquine Resistance (*Pfcr*) at its Intra-Erythrocytic Developmental Stage". Proc. Infectious Diseases: From Basic to translational research (Europe-Africa Frontier Research Conference), Cape Town, South Africa, April 4 – 9, 2009.
4. Segun Fatumo, Kitiporn Plaimas, **Marion Adebisi**, Gunnar Schramm, Ezekiel Adebisi, Roland Eils and Rainer König. (2008) "A comparative study of plasmodium species that infect human and rodents": Biochemical Approach. Poster proceeding of the ISMB conference. "Leading applications and technologies in Bioinformatics", Martina Franca, Italy. 2008.
5. **Adebisi M.** "*Plasmodium falciparum* Chloroquine Resistance (*Pfcr*) Mechanisms: (2009) An Erythrocytic Developmental Stage. Proc. EMBnet-RIBio 2009 International Conference". (Bioinformatics for High Throughput Technologies and the Interface of Bioinformatics and Systems Biology), Cancun, Mexico, Oct. 26 – 31, 2009.
6. **Adebisi M.,** Fatumo S., Olasehinde G., and Adebisi E. "Simulating the Efflux Models of Chloroquine in the *Plasmodium Falciparum* Resistance (PfcRT) Mechanism". Proceedings of Joint ISCB Africa &

ASBCB Conference on Bioinformatics of African Pathogens, Hosts and Vectors. Bamako, Mali, November 30 - December 2, 2009.

7. **Adebiyi M.**, Adebiyi E., Koenig, R., Schramm, G., Kranz, A-L, Fatumo, S. and Eils, R. “Elucidating the Drugs Resistance Mechanism(s) of the Malaria Parasite to Tetracyclines and Chloroquines”. Proceedings of Joint ISCB Africa & ASBCB Conference on Bioinformatics of African Pathogens, Hosts and Vectors. Bamako, Mali, November 30 - December 2, 2009.
8. Adebiyi A.A., Ayo C.K., Akinusi O. and **Adebiyi M.O.** (2010), “Design and Implementation of Electronic Government Procurement (e-GP) System for Nigeria Public Sector”, Proceedings of 1<sup>st</sup> International Conference on Software Engineering and Intelligent System, Vol. 1, pp. 71-83.
9. **Adebiyi M. O.**, Olasehinde G. I, Ajayi A. A and Adebiyi E. F. (2011) “Modelling the Efflux System of the Malaria Parasite (*Plasmodium falciparum*). Proceedings of the second joint meeting of ISCB and ASBCB and the third conference of the ASBCB on Bioinformatics of African Pathogens, Hosts and Vectors. Cape Town, South Africa.
10. Grace Olasehinde, Adesola Ajayi, **Marion Adebiyi** (2011), “Genetic diversity of *Plasmodium falciparum* field”. Proceedings of the second joint meeting of ISCB and ASBCB and the third conference of the ASBCB on Bioinformatics of African Pathogens, Hosts and Vectors. Cape Town, South Africa.
11. **Marion Adebiyi**, Segun Fatumo and Ezekiel Adebiyi (2013), “In *Silico* Study of the Complex Mechanisms of the Anopheles gambiae Insecticide Resistance”. Proceedings of the third joint meeting of ISCB and ASBCB and the fourth conference of the ASBCB on Bioinformatics of African Pathogens, Hosts and Vectors. Casablanca, Morocco from 11 – 16<sup>th</sup> March 2013.
12. Solomon Rotimi, **Marion Adebiyi**, Wisdom Iyanda-Joel, Omolola Omotosho, Oluwakemi Rotimi, and Oluwatosin Dosumu (2013), “Evaluation of the Potential of Sesamum indicum Linn proteins as precursors of Angionstensin-converting-enzyme by an in-silico Approach”, Proceedings of the third joint meeting of ISCB and ASBCB and the fourth conference of the ASBCB on Bioinformatics of African Pathogens, Hosts and Vectors. Casablanca, Morocco from 11 – 16<sup>th</sup> March 2013.
13. **Marion Adebiyi**, Efe Okujeni and Segun Fatumo (2013), “A Petri-Net Based Model for PBS System on Linux Enterprise Server”, Proceedings of the 22nd International Business Information Management Association (IBIMA) Conference, November 13-14, 2013. Rome, Italy.
14. **Marion Adebiyi**, Josiah Oghuan, Segun Fatumo, Ezekiel Adebiyi, (2013) “A Functional Workbench for *Anopheles gambiae* Micro Array Analysis”, Proceedings of IEEE 2013 European Modeling Symposium.
15. **Marion Adebiyi**, Segun Fatumo, Ezekiel Adebiyi, (2015) “Computational Analysis of *Anopheles gambiae* Metabolism to facilitate Insecticidal Target Discovery”, Proceedings of the fourth joint meeting of ISCB and ASBCB and the fifth conference of the ASBCB on Bioinformatics of African Pathogens, Hosts and Vectors. Da re Salam, Tanzania from 9<sup>th</sup> – 11<sup>th</sup> March 2015.
16. **Marion Adebiyi**, Olubanke Ogunlana, Segun Fatumo, Jason Rasgon, Ezekiel Adebiyi, (2015) “The *Anopheles gambiae* Insecticidal Targets Made Bare by *In-silico* Analysis”, Proceedings of the second International conference on Africa Development Issues (ICADI). Covenant University, Ota. Nigeria from 11 – 13 May 2015.
17. Trust Odia & **Marion Adebiyi**, (2015) “Predicting the Structure of *Anopheles gambiae*, Cytochrome P450 Protein *in-silico*”, Proceedings of the second International conference on Africa Development Issues (ICADI). Covenant University, Ota. Nigeria from 11 – 13 May 2015.

## Section F: Extra-Curricular Activities / Hobbies

Traveling, Singing and Cooking.

## Section G: Awards and Merits

1. National Youth Service Corps (NYSC) Merit Award By Niger State Government. 2001.
2. French Government Grant - Bioinformatics of African Pathogens and Disease Vectors, Nairobi, Kenya. 2007
3. CPN Fellowships to Europe for Young African Scientists: Preparation of proposals for EU FP7 Calls on Poverty Related Diseases (PRD), - (Parasite Development in the Anopheles as a target for malaria control and eradication) @: German Cancer Research Centre (DKFZ), Heidelberg, Germany. 2008.
4. European Science Foundation grants (Cape Town, SA) - 2009.
5. ISCB and EMBnet-RIBio grant for EMBnet-RIBio - (Bioinformatics for High Throughput Technologies and the Interface of Bioinformatics and Systems Biology), Cancun, Mexico. 2009.
6. International Society for Computational Biology and ASBCB Joint ISCB Africa & ASBCB - Bioinformatics of African Pathogens, Hosts and Vectors. Bamako, Mali 2009.
7. ISCB, ASBCB and NIH - Bioinformatics of African Pathogens, Hosts and Vectors. Cape Town, South Africa. 2011.
8. Recipient of the ISCB SC Cash award of Annual proposal submission Competition for organizing quiz competition for Undergraduates in Bioinformatics in West African Region. 2011
9. Welcome Trust Advanced - Genomic Epidemiology in Africa. Blantyre, Malawi. 2012.
10. Recipient of Cash award High impact Publication - David Oyedepo Foundation (DOF). 2012
11. ISCBSC for (ISMB). CA, USA. 2012.
12. Molecular Biochemistry in Health Sciences. Tunisia 2013
13. ISCB for Africa ASBCB on Bioinformatics of African pathogens hosts and vectors. Casablanca, Morocco. 2013
14. ISCB for Africa ASBCB on Bioinformatics of African pathogens hosts and vectors. Da re Salam, Tanzania 2015.

## Section H: Academic Linkages

### Membership of Professional Bodies and Learned Societies

- Africa Society of Bioinformatics and Computational Biology (ASBCB)
- **Past President** (Regional Student Group of ISCB Africa)RSG- West Africa
- International Society for Computational Biology Students Council (ISCB SC)

- IEEE – Institute of Electrical Electronics Engineering
- IEEE Wie- Women in Engineering
- Nigeria Computer Society (NCS)
- NISBCB- Nigerian society for bioinformatics and computational Biology
- *Association of Storage Networking Professionals (ASNP) (Member)*
- Association of World Scientific Computing Club (Member)
- European Society of Clinical Microbiology and Infectious Diseases (Member)
- Covenant University Bioinformatics Research Cluster (CUBRe)
- H3ABioNet

### **Section I: Research Interest**

Application of Soft Computing technique to real-life problems, Requirements Engineering, e-Commerce and M-commerce research.

### **Section J: Extra-Curricular Activities / Hobbies**

Traveling, Singing and Cooking.

### **Referees:**

#### **Prof. Ezekiel Adebisi**

Department of Computer and Information Sciences,  
Covenant University, KM 10 Idiroko Road, Ota.  
Email: [ezekiel.adebisi@covenantuniversity.edu.ng](mailto:ezekiel.adebisi@covenantuniversity.edu.ng),  
Tel: +2348058554966

#### **Dr. A. A. Ajayi**

Department of Biological Sciences,  
Covenant University, KM 10 Idiroko Road, Ota.  
Email: [quietasever@yahoo.com](mailto:quietasever@yahoo.com),  
Tel: +2348030460901

#### **Dr. Jelili Oyelade**

Department of Computer and Information Sciences,  
Covenant University, KM 10 Idiroko Road, Ota.  
Email: [jelili.oyelade@covenantuniversity.edu.ng](mailto:jelili.oyelade@covenantuniversity.edu.ng)  
Tel: +2348035755778