

OLUTOMILAYO OLAYEMI PETINRIN

Phone: +85251619943, +2347069606278

Email: opetinrin2-c@my.cityu.edu.hk, olutomilayo.petinrin@gmail.com

Research Interests: Computational Biology, Applied Machine Learning, Deep Learning.

EDUCATION

PhD	City University of Hong Kong, Computer Science	August 2023
MSc	Universiti Teknologi Malaysia (UTM), Computer Science Thesis: “Bioactive Molecules Prediction Using Voting Based and Stacking Ensemble” Graduated with Distinction	December 2017
BSc	Ekiti State University, Ado-Ekiti, Computer Science Graduated with Distinction	December 2014

HONORS AND AWARDS

Research Tuition Scholarship City University of Hong Kong	2020, 2022
Postgraduate Studentship Award City University of Hong Kong	2019
Best Student Award Faculty of Computing, Universiti Teknologi Mayasia.	2018
MTN Foundation Scholarship Award for Science Students 200,000 Naira annually	2012-2014
University Scholarship Award Tuition waiver	2011

PUBLICATIONS

Book Chapter

Petinrin, O. O., & Wong, K. C. (2021). Protocol for Epistasis Detection with Machine Learning Using GenEpi Package. In *Epistasis* (pp. 291-305). Humana, New York, NY.

Journal Publications

Liu, Z., Liu, X., Liu, F., Zhao, H., Zhang, Y., Wang, Y., Ma, Y., Wang, F., Zhang, W., **Petinrin, O.O.** & Yao, Z., 2022. The comprehensive and systematic identification of BLCA-specific SF-regulated, survival-related AS events. *Gene*, 835, p.146657.

Petinrin, O. O., Saeed, F., Li, X., Ghabban, F. & Wong, K. C. (2022). Reactions' Descriptors Selection and Yield Estimation Using Metaheuristics Algorithms and Voting Ensemble. *CMC-Computers, Materials & Continua*, 70(3), 4745-4762.

Petinrin, O. O., Li, X., & Wong, K. C. (2021). Particle Swarm Optimized Gaussian Process Classifier for Treatment Discontinuation Prediction in Multicohort Metastatic Castration-Resistant Prostate Cancer Patients. *IEEE Journal of Biomedical and Health Informatics*.

Liu, L., Chen, X., **Petinrin, O. O.**, Zhang, W., Rahaman, S., Tang, Z. R., & Wong, K. C. (2021). Machine Learning Protocols in Early Cancer Detection Based on Liquid Biopsy: A Survey. *Life*, 11(7), 638.

Ogunsina, A. A., Petinrin, M. O., **Petinrin, O. O.**, Offorndedo, E. N., Petinrin, J. O., & Asaolu, G. O. (2021). Optimal distributed generation location and sizing for loss minimization and voltage profile optimization using ant colony algorithm. *SN Applied Sciences*, 3(2), 1-10.

Aghimien, E. I., Aghimien, L. M., **Petinrin, O. O.**, & Aghimien, D. O. (2020). High-performance computing for computational modelling in built environment-related studies—a scientometric review. *Journal of Engineering, Design and Technology*.

Petinrin, O. O., & Saeed, F. (2019). Stacked ensemble for bioactive molecule prediction. *IEEE Access*, 7, 153952-153957.

Hameed, S. S., **Petinrin, O. O.**, Osman, A., & Hashi, F. S. (2018). Filter-wrapper combination and embedded feature selection for gene expression data. *Int. J. Advance Soft Compu. Appl*, 10(1), 90-105.

Afolabi, L. T., Saeed, F., Hashim, H., & **Petinrin, O. O.** (2018). Ensemble learning method for the prediction of new bioactive molecules. *PloS one*, 13(1), e0189538.

Petinrin, O. O., & Saeed, F. (2018). Bioactive molecule prediction using majority voting-based ensemble method. *Journal of Intelligent & Fuzzy Systems*, 35(1), 383-392.

Conference Papers

(Peer-Reviewed)

Petinrin, O. O., Saeed, F., & Al-Hadhrami, T. (2017, October). Voting-based ensemble method for prediction of bioactive molecules. In *2017 2nd International Conference on Knowledge Engineering and Applications (ICKEA)* (pp. 118-122). IEEE.

Muniru, I. O., Shifulah, N., **Petinrin, O. O.**, & Utama, N. P. (2017). A Digital Technology Framework for Promoting Nutritional/Health Benefits of West African Diet. In *2017 3rd International Conference on Science, Engineering, and the Social Sciences (ICSESS)* Page, 29, 201.

Petinrin, O. O., & Olatunbosun, K. (2017). Application of machine learning in prediction of bioactivity of molecular compounds: A review. *Technology (ICONSEET)*, 2(2), 9-15.

Olatunbosun, K., & **Petinrin, O. O.** (2017). Expert System for Diagnosis of Malaria and Typhoid Fever. *Technology (ICONSEET)*, 2(44), 341-346.

TEACHING EXPERIENCE

City University of Hong Kong, Hong Kong
Teaching Assistant, Department of Computer Science

Sept. 2019 to May 2022

- CS4480 - Data-Intensive Computing
- CS5488 - Big Data Algorithm and Techniques
- CS1302 - Introduction to Computer Programming
- CS1102 - Introduction to Computer Science (**Tutor** for 4 Semesters)

Kings University, Odeomu, Osun State, Nigeria
Assistant Lecturer, Department of Computer Science

Mar. 2018 to Aug. 2019

- Courses taught include: “Fundamentals of Data Structure and Algorithms”, “Computer Networks”, and “Object-Oriented Programming”.
- Developed mid-semester quizzes, homework, and exams
- Coordinated grading and labs

Undergraduate Students Advised

- Adeniyi Adebobola, “Design and Implementation of a Web-based Tourist Information System”, July 2019
- Omole Oluwatobiloba “Design and Implementation of Cashless System using a Smart Card System”, July 2019

OTHER EXPERIENCE

National Institute for Educational Planning and Administration (NIEPA), Ondo, Ondo State, Nigeria

May 2015 to Apr. 2016

System Analyst

- Ensured network connections.

- Traced and restored network disconnections in the different parastatals of the Institute.
- Trained interns.

Bureau of Computer Services and Information Technology, Office of the Governor, Osogbo, Osun State.

Aug. 2012 to Feb. 2013

Intern

- Monitored the Network Operating Centers (NOC) of the State.
- Responsible for constant network connection in all office ministries.

PROFESSIONAL TRAINING

Machine Learning A-Z™: Hands-On Python & R in Data Science, Udemy

October 21, 2021

ICSI | CNSS Certified Network Security Specialist, International Cybersecurity Institute, July 2020

Data Analytics using RapidMiner

Faculty of Computing, UTM, 2017

Participant

3rd International Conference on Science, Engineering, and the Social Sciences (ICSESS 2017), 2017

Mendeley Presentation

Faculty of Computing, Universiti Teknologi Malaysia. (2016)

PROFESSIONAL AFFILIATIONS

Associate Member, Hong Kong Computer Society (HKCS), 2021-Present

Member ID: A30198

Member, Organization for Women in Science for the Developing World (OWSD), 2018-Present

Member ID: 7310.

National Association of Science Students (NASS), 2010 – 2014

National Association of Computer Science Students (NACOSS), 2010 – 2014

PROFESSIONAL SERVICE

International Program Committee Member

5th International Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence (ISMSI 2021), 2021

Program Committee Member

28th International Conference on Neural Information Processing (ICONIP 2021), 2021

Program Committee Member

27th International Conference on Neural Information Processing (ICONIP 2020), 2020

RapidMiner Facilitator

Faculty of Computing, UTM, 2017

Central Working Committee Member

3rd International Conference on Science, Engineering, and the Social Sciences (ICSESS 2017), 2017

Organizing Committee Member

2nd International Conference of Reliable Information and Communication Technology 2017 (IRICT 2017)

Peer-Reviewed Articles for:

- IEEE Journal of Biomedical and Health Informatics
- BioData Mining
- Computer Modeling in Engineering & Sciences
- Applied Soft Computing
- Frontiers in Genetics, Frontiers in Bioengineering and Biotechnology and Frontiers in Plant Science (Computational Genomics)
- CMC-Computers, Materials & Continua

COMMUNITY SERVICE

Research Education Committee, Department of Computer Science, City University of Hong Kong

Member, Hong Kong, September 2021 – August 2023

Association of Nigerian Scholars in Hong Kong (ANSHK)

Secretary (first female), Hong Kong, October 2021 – September 2022

Navigating Hong Kong, ANSHK

Guest Speaker, Hong Kong, 2020

Electoral Committee, ANSHK

Member, Hong Kong, 2020

Electoral Committee, International Student Society (ISS-NIGERIA), UTM

Member, Malaysia, 2017

Annual General Meeting (AGM) Committee, International Student Society (ISS-NIGERIA), UTM

Member, Malaysia, 2017

Information Communication and Technology (ICT), Community Development Service (CDS) Group. Ondo West, Ondo State.

Project Coordinator, 2015 - 2016

Joint Admissions and Matriculation Board

Proctor, 2016

Deeper Life Campus Fellowship

Academic Director, 2011-2012

LANGUAGES

English: Official Language

Yoruba: Native Language

French: Novice Listener, Intermediate Speaker, Intermediate Reading and Writing

COMPUTER SKILLS

Programming: Python, HTML5, Javascript

OTHER

Interests/Hobbies: Travelling, Sightseeing, Hiking, Cycling, Dancing

Citizenship: Nigerian

REFERENCES

Dr. Ka-Chun Wong, Associate Professor

Department of Computer Science,

City University of Hong Kong

Email: kc.w@cityu.edu.hk

Dr. Faisal Saeed, Senior Lecturer

School of Computing and Digital Technology

Birmingham City University

Email: Faisal.Saeed@bcu.ac.uk

Prof. Adenike Kuku, Vice Chancellor

Kings University,

Odeomu. Osun State. Nigeria

Email: a.kuku@kingsuniversity.edu.ng