AKINLABI
Emmanuel Olutayo

Tel: +234-7063495541, Mobile: +48 739698476
Email: emmanuel.akinlabi@fuw.edu.pl
Personal Website: https://tayoakinlabi.wixsite.com/emmanuel

Education

2017 - 2020	**Ph.D. (Atmospheric Physics)**, *University of Warsaw, Poland.*
	Early Stage Researcher - Marie-Sklodowska-Curie Innovative Training Network COMPLETE
Thesis Title:	*Sub-grid scale modeling of particle transport in Large Eddy Simulations of fluid flows*
Supervisors:	Prof. Szymon Malinowski & Dr. Marta Waclawczyk
Description:	*The project is aimed at numerical modeling of transport and interactions of Stokes particles, such as cloud droplets and other aerosols (WP 3,4). We will focus on the correct modelling of collisions and coalescence of Stokes particles in turbulent flows comparing SGS models in true LES with filtered DNS simulations (a priori LES analysis) as the reference results.*
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2015 - 2016	**Masters in Mathematical Sciences**, *African Institute for Mathematical Sciences, Senegal*, Overall grade: Distinction.
Thesis Title:	*Simulation of Cerebrospinal fluid (CSF) flow with Finite Pointset method (FPM)*
Supervisors:	Dr. Almut Eisentraeger & Dr. Joerg Kuhnert (Fraunhofer Institute for Industrial Mathematics ITWM, Germany)
Description:	*The thesis explored how CSF flow and the nervous tissue can be modelled as a poroelastic material. Further interesting aspects arise due to the rigid enclosure of the brain by the skull and the pressure oscillations originating in the large arteries of the brain. The aim of the project was to examine in a simplified geometry, how this system can be simulated with the Finite Pointset Method in its current form or where new developments would first be necessary.*
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2008 - 2014	**Bachelor of Technology (Mathematics)**, *Ladoke Akintola University of Technology*, Nigeria.
	Second Class Upper Division (Honours)
Thesis Title:	*Non-Linear Hydromagnetic Convection at a continuous moving surface Using Weighed Residual Method*
Supervisors:	Dr. Oderinu & Prof. F.O. Akinpelu
Description:	*This thesis explored the idea of using Weighted Residual Method to solve Non-linear Coupled Partial Differential Equation generated from Hydromagnetic Convection.*

Work Experience

March 2017 - February 2020	**Research Assistant**, *University of Warsaw*, Poland.

April 2016 - May 2016	**Research Assistant**, *Fraunhofer Institute for Industrial Mathematics*, Germany.
November 2014 - October 2015	**Subject Teacher (Mathematics)**, *Edo Boys High School*, Nigeria.
July, 2011– March 2012	**Industrial Training**, *Best Legacy College of Education*, Nigeria.

Awards

March, 2013	MUSTE Undergraduate Scholarship by Jim Ovia foundation, Nigeria
April, 2014	Faculty Prize for the Best Graduating Student in the Department of Pure and Applied Mathematics by Ladoke Akintola University of Technology Governing Council, Nigeria
May 2014	Gold Medalist in National Mathematics Competition for University Students (NAMCUS 2014) by National Mathematical Centre (NMC), Nigeria.
August, 2015	Full Masters' Scholarship by Next Einstein Initiative at African Institute for Mathematical Sciences, Senegal
March, 2017	Marie-Sklodowska-Curie Innovative Training Network COMPLETE

Professional Qualification and Certifications

October, 2015	Nigerian Institute of Management (Chartered) **Proficiency in Management**
November, 2015	Modeling and Simulation using MATLAB - Statement of Participation (iversity) www.iversity.org/verify/OcGMQL
January, 2016	Foundations of Teaching for Learning 1: Introduction by Common-wealth Education Trust (Coursera) www.coursera.org/account/accomplishments/verify/DWFZDM4RAFGR
February, 2016	Model Thinking by University of Michigan (Coursera) www.coursera.org/account/accomplishments/verify/EHL2RGZ5DRQS
February, 2016	Establishing a Professional Self through Effective Intercultural Communication by National University of Singapore (Coursera) www.coursera.org/account/accomplishments/verify/LALARK4LWLML
March, 2016	Dynamical Modeling Methods for Systems Biology (Coursera) https://www.coursera.org/account/accomplishments/verify/TJT4Z2CX6QQ4
June, 2016	Foundations of Teaching for Learning 6: Introduction to Student Assessment (Coursera) https://www.coursera.org/account/accomplishments/verify/99EEBNP8RA2D
December, 2016	Python Programming: A Concise Introduction (Coursera) https://www.coursera.org/account/accomplishments/verify/X9CD32B563V3

Technical skills

Mathematical modeling, Numerical Simulation, Problem-solving, Leadership, Creativity, Logical thinking

Computer skills

Advanced	Microsoft Office suite
Intermediate	PYTHON, R, LATEX, MATLAB, SCILAB, RACKET, Linux, Microsoft Windows

Research Schools/Symposiums attended with dates

1st - 12th August 2016   **African Mathematical School, Nigeria**   *Sponsored by: CIMPA and London Mathematical Society*

4th - 6th July, 2016   **CiM-IMPRS Graduate School Symposium, University of Munster, Germany**

14th - 15th April, 2016   **Young Researchers' symposium (YRS 2016) Fraunhofer - Zentrum Kaiserlautern, Germany**

Languages

Yoruba   **Native**

English   **Fluent**

French   **Basic**

Polish   **Basic**