Wisdom O. Ikezogwo

CONTACT INFORMATION	+(234) 908-3206-640 — wisdom.ikezogwo@student.oauife.edu.ng — wisdomikezogwo.github.io
RESEARCH INTERESTS	Representation Learning, Computer Vision, Medical Image Analysis, Control Theory, Computational Neuroscience, Robotics.

EDUCATION

Obafemi Awolowo University, Ile-Ife, Nigeria   2015-2019

B.Sc. Electronic & Electrical Engr. — GPA 4.73/5.00 — Top 2 in class of 120.

- Dissertation Topic: "Development of an application for combining disparate EEG seizure datasets into a single dataset" — Supervisor: Dr. Kayode P. Ayodele

IBRO-SIMONS Computational Neuroscience Summer School, Cape-Town, South Africa

January, 2020

- Projects: "Putting attention into convolutional neural network." and "Exploring Convolutional neural network classification of non-image data"

HONORS AND AWARDS

IBRO-Simons Computational neuroscience Summer School travel grant, Cape Town.	2020
Prof. L.O. Kehinde prize for the Best Graduating Student in the Instrumentation and Control option, OAU Ile-Ife, Nigeria.	2019
Pa Simeon Ladipo Oyebolu & Mrs Emily Olabopo Oyebolu prize for Best Male Graduating Student, OAU Ile-Ife, Nigeria.	2019
Federal Government Scholarship Award, Nigeria. — value: $1500	2017-2019
Total/NNPC National Merit Scholarship. — value: $1500	2016-2019
Etisalat Nigeria Merit Scholarship. — value: $250	2015

PUBLICATIONS

K.P.Ayodele, **W.O. Ikezogwo**, M.A. Komolafe and P. Ogunbona. "Supervised domain generation for integration of disparate scalp EEG datasets for automatic epileptic seizure detection."
Elsevier's Computers in Biology and Medicine, 103757
https://doi.org/10.1016/j.compbiomed.2020.103757

K.P.Ayodele, **W.O. Ikezogwo**, and K. Osuntuyi. " Empirical characterization of the temporal dynamics of EEG spectral components." (In review at SN Appl. Sci.)

PAPERS IN PREPARATION

K.P.Ayodele and W.O. Ikezogwo. "If you must reduce your EEG datapoint dimensions before training step consider thinking of the dynamics."

CONFERENCES

International Conference on Machine Learning (ICML)   [Virtual]   2020

- Participated in the conference and several of its workshops on health care majorly focusing on Model interpretabilty, Explainability, Clinician-in-the-loop and Domain shift.

ACADEMIC EXPERIENCE

Obafemi Awolowo University, Ile-Ife, Osun Nigeria

Research Assistant—Biosignal Processing, Instrumentation and Control   **March, 2018 - present**

- Worked on embedded systems for Brain-computer Interfacing (BCI)
- Research into data integration process for disparate multivariate time series datasets, and testing for properties spectral components of said data.

- Working on using Artificial neural networks to determine/ classify various brain signals and interface with a mechanical hand glove for rehabilitation of stroke victims.

Teaching Assistant **April - August, 2019**

Co-taught 2nd year undergraduate level course in Fundamentals of Electronic & Electrical Engineering. Responsible for recitation classes, quiz, homework assignments and continous assesments grades.

- EEE 203/201: Fundamentals of Electronic & Electrical Engr, First Semester 2019.

Co-Instructor **April - August, 2017**

Outreach lectures covering basic robotics, structure building and lab sessions. Shared responsibility for lecture sessions and outreach proposals to high schools and colleges.

PROFESSIONAL EXPERIENCE

Demz Analytics Limited, Lagos, Nigeria.

Data Scientist / ML Engineer **October, 2019 - Present**

Developing various models, and systems from data processing model to recommendation systems leveraging transformer models and epsilon-greedy bandit strategy, Deploying these into production servers as well.

ipNX Nigeria Limited, Lagos, Nigeria

Research systems and architecture Intern **September, 2017 - February, 2018**

Worked on provisioning servers for development, understanding the Systems architecture in production, and creating test environment on Virtual machines for testing.

PROGRAMMING LANGUAGES

- Packages: Pytorch, Numpy, OpenCV, Rpy2.
- Computer Languages: Python, Bash (Slurm), SQL.
- Hardware Languages: Arduino C, LEGO, Tetrix.
- Software: Docker, Singularity(on High-Performance Computing resourcee)
- Human Languages: English (native), Igbo (native), Yoruba (Fluent), Pidgin (Fluent).

EXTRACURRICULAR

- Basketball
- Red Cross Volunteering
- Writing (Newsletters, Music)

REFERENCES

Dr. Kayode Ayodele
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—Supervisor/PI—

Prof. Lawrence O. Kehinde
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Prof. Tim P. Vogels
Neuroscience
Institute for Science and Technology, Austria.
timvogels@gmail.com

Dr. Grace W. Lindsay
Gatsby Comp. Neuro. Unit
University College London.
gracewlindsay@gmail.com