

## Wisdom O. Ikezogwo

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CONTACT INFORMATION	+(234) 908-3206-640 — wisdom.ikezogwo@student.oauife.edu.ng — wisdomikezogwo.github.io	
RESEARCH INTERESTS	Computer vision, Medical image analysis, Representation learning, Control theory, Computational neuroscience, Robotics.	
EDUCATION	<b>Obafemi Awolowo University</b> , Ile-Ife, Nigeria	2013-2019
	<b>B.Sc. Electronic &amp; Electrical Engr. — GPA 4.73/5.00 — Class rank 2/120.</b>	
	<ul style="list-style-type: none"><li>• Dissertation Topic: “Development of an application for combining disparate EEG seizure datasets into a single dataset” — Supervisor: Dr. Kayode P. Ayodele</li></ul>	
	<b>IBRO-SIMONS Computational Neuroscience Summer School</b> , Cape-Town, South Africa	
	January, 2020	
	<ul style="list-style-type: none"><li>• Projects: “Putting attention into convolutional neural network.” and “Exploring convolutional neural network classification of non-image data”</li></ul>	
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. — cumm. value: \$1500	2017-2019
	Total/NNPC National Merit Scholarship. — cumm. value: \$1500	2016-2019
	Etisalat Nigeria Merit Scholarship. — value: \$250	2015
PUBLICATIONS	K. P. Ayodele, <b>W. O. Ikezogwo</b> , M. A. Komolafe, and Philip Ogunbona. 2020. “Supervised domain generalization for integration of disparate scalp EEG datasets for automatic epileptic seizure detection.” <i>Computers in Biology and Medicine</i> 120: 103757.	
	K. P. Ayodele, <b>W. O. Ikezogwo</b> , and A. A. Osuntuyi. (in press) “Empirical Characterization of the Temporal Dynamics of EEG Spectral Components.” <i>International Journal of Online and Biomedical Engineering (IJOE)</i> .	
PAPERS IN PREPARATION	<b>W. O. Ikezogwo</b> , A. O. Baruwa, and K. P. Ayodele. “If you must reduce your EEG datapoint dimensions before training step consider thinking of the dynamics.”	
	K. P. Ayodele, <b>W. O. Ikezogwo</b> , and O. O. Kushimo. “Physiora: post-stroke rehabilitation using human pose estimation”	
CONFERENCES	<b>International Conference on Machine Learning (ICML)</b>	2020
	<ul style="list-style-type: none"><li>• Participated in the conference and several of its workshops on health care majorly focusing on Model interpretability, Explainability, Clinician-in-the-loop and Domain shift.</li></ul>	
PRESENTATIONS	<b>Black In Neuro Mini-Conference (BIN2020)</b>	2020

- **Oral presentation** — K. P. Ayodele, **W. O. Ikezogwo**, M. A. Komolafe, and Philip Ogunbona. 2020. “Supervised domain generalization for integration of disparate scalp EEG datasets for automatic epileptic seizure detection.”

## ACADEMIC EXPERIENCE

**Obafemi Awolowo University**, Ile-Ife, Osun Nigeria

**Research Assistant**—*Biosignal Processing, Inst. and Control Lab* March, 2017 - present

- Worked on embedded systems for Brain-computer Interfacing (BCI) using Emotive Epoc+
- Worked on data integration process for disparate multivariate time series datasets, Characterizing spectral components of said data towards building dynamical dimensionality reduction methods.
- Working on using Artificial neural networks for classification tasks on brain EEG signals and projects promoting the robustness of clinically deployable models.

**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 continuous assessments grades for over 90 students within EEE and ~ 700 student within the faculty.

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

**Co-Instructor**

April - August, 2017

Outreach: teaching basic robotics-structure building and programming. Shared responsibility for lecture sessions and outreach proposals to high schools and colleges.

## PROFESSIONAL EXPERIENCE

**Okra, Inc.**, Lagos, Nigeria.

*Data Scientist / ML Engineer*

October, 2020 - Present

Working on Transformer models for named entity recognition and other natural language tasks, that feed into services as an API which includes Predicted Income, Spending pattern, and Reconciliations.

**Demz Analytics Limited**, Lagos, Nigeria.

*Data Scientist / ML Engineer*

October, 2019 - October 2020

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

## SOFTWARE PROGRAMMING & LANGUAGES

- Computer Languages: Python, Bash (Slurm), SQL, L<sup>A</sup>T<sub>E</sub>X, Arduino C.
- Software: Pytorch, Numpy, OpenCV, Docker, Singularity(on HPC resource), Flask.
- Human Languages: English (native), Igbo (native), Yoruba (Fluent), Pidgin (Fluent).

## EXTRA COURSES

- Linear Algebra 18.06SC Linear Algebra (Fall 2010) on OCW.
- Deep Learning Specialization on Coursera.

## EXTRACURRICULAR

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

## SOCIETIES

- Black in AI (BAI), Black in Neuro (BiN), IEEE, EducationUSA-Abuja

## LEADERSHIP

- Librarian, Dept of Elect. & Elect Engr. OAU

May, 2017 - May, 2018

## REFERENCES

- Available on request