

Wisdom O. Ikezogwo

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	Obafemi Awolowo University , Ile-Ife, Nigeria	2013-2019
	B.Sc. Electronic & Electrical Engr. — GPA 4.73/5.00 — Class rank 2/120.	
	<ul style="list-style-type: none">• 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	
	<ul style="list-style-type: none">• 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. — 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, 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.” <i>Computers in Biology and Medicine</i> 120: 103757.	
	K. P. Ayodele, W. O. Ikezogwo , and A. A. Osuntuyi. 2020. “Empirical Characterization of the Temporal Dynamics of EEG Spectral Components.” <i>International Journal of Online and Biomedical Engineering (IJOE)</i> .	
PAPERS IN PREPARATION	W. O. Ikezogwo , 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, W. O. Ikezogwo , and O. O. Kushimo. “Physiora: post-stroke rehabilitation using human pose estimation”	
CONFERENCES	International Conference on Machine Learning (ICML)	2020
	<ul style="list-style-type: none">• 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.	
PRESENTATIONS	Black In Neuro Mini-Conference (BIN2020)	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^AT_EX, 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