

## 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.</b> — <b>GPA 4.73/5.00</b> — <b>Top 2 in class of 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. — value: \$1500 2017-2019 Total/NNPC National Merit Scholarship. — 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	K. P. Ayodele, <b>W. O. Ikezogwo</b> , and A. Baruwa. “If you must reduce your EEG datapoint dimensions before training step consider thinking of the dynamics.”		
CONFERENCES	<b>International Conference on Machine Learning (ICML)</b> [Virtual] 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> [Virtual] 2020 <ul style="list-style-type: none"><li>• <b>Oral presentation</b> — 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.”</li></ul>		

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)
- 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 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 EE and 650 in the faculty.

- 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

**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 include Predicted Income, Spending pattern and Reconciliations.

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

*Data Scientist / ML Engineer*

**October, 2019 - October 2020**

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

PROGRAMMING  
LANGUAGES

- Computer Languages: Python, Bash (Slurm), SQL.
- Software: Pytorch, Numpy, OpenCV, Docker, Singularity(on HPC resource)
- Human Languages: English (native), Igbo (native), Yoruba (Fluent), Pidgin (Fluent).

EXTRACURRICULAR

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

SOCIETIES

- Black in AI (BAI), Black in Neuro (BIN), IEEE

STANDARDIZED  
TESTS

- GRE: 320 (Q:165, V:155)
- TOEFL: 106 (R:26, L:30, S:23, W:27)

REFERENCES

Dr. Kayode Ayodele  
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Obafemi Awolowo Univ.  
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—Supervisor/PI—

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Neuroscience  
Institute for Science and Technology, Austria.  
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