# Ikezogwo Wisdom O.

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**CONTACT INFORMATION**

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**RESEARCH INTERESTS**

Computational neuroscience, representation learning, statistics and information theory, control theory, robotics.

**EDUCATION**

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

January, 2020

- Mini Project: "Putting attention into convolutional neural network."
- Supervisor: Grace Lindsay
- Maxi Project: "Exploring Convolutional neural network classification of non-image data"
- Supervisor: Chris Currin

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

B.Sc. Electronic & Electrical Engineering, December, 2019
GPA 4.73/5.00

- Dissertation Topic: "Development of An Application for Combining Disparate EEG Seizure Datasets into A Single Dataset"
- Supervisor: Kayode P. Ayodele

**HONORS AND AWARDS**

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| 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, Ile-Ife, Nigeria. | 2019 |
| Pa Simeon Ladipo Oyebolu & Mrs Emily Olabopo Oyebolu prize for Best Male Graduating Student, Ile-Ife, Nigeria. | 2019 |
| Federal Government Scholarship Award, Ile-ife, Nigeria. | 2017-2019 |
| Total/NNPC National Merit Scholarship, Ile-ife, Nigeria. | 2016-2019 |
| Etisalat Nigeria Merit Scholarship, Ile-ife, Nigeria. | 2015-2016 |

**ACADEMIC EXPERIENCE**

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

*Research Assistant*                                        **March, 2018 - present**
Bio-instrumentation and Machine Learning Lab.

- 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.

Published manuscripts

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

In review

K.P.Ayodele, W.O. Ikezogwo, and K. Osuntuyi. Empirical characterization of the temporal dynamics of EEG spectral components.

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.

Professional Experience

**Demz Analytics Limited**, Ibeju-Lekki, Lagos Nigeria

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

- Developed several features including plagiarism checker using the uni-gram method.
- Worked on serving our models to users by working on production side, using tools like REST, gRPC, Apache Kafka, Docker and Apache Spark.

**ipNX Nigeria Limited**, Victoria Island, Lagos Nigeria

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

- Worked on provisioning servers for development.
- Understanding the Systems architecture in production.
- Creating test environment on Virtual machines for testing.

Languages and Skills

- Statistical Packages: Pytorch, Numpy, Rpy2.
- Computer Languages: Python, Bash, SQL, some use of Unix shell scripts.
- Applications/Tools: Adobe Illustrator, Postman, Apache Kafka.
- Operating Systems: Unix/Linux, Windows.
- Human Languages: English (native), Igbo (native), Yoruba (Fluent), Pidgin (Fluent).
- Hardware Languages: Arduino C, LEGO, Tetrix.

References

| Dr Kayode Ayodele | Dr Kunle Osuntuyi |
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| Electronic and Electrical Engr | Dept. of Mathematics |
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