OLAYIWOLA F. AROWOLO

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RESEARCH INTERESTS

Artificial Intelligence, Energy Systems Modelling

EDUCATION

- **Doctor of Philosophy (PhD) || Technical University Delft (Netherlands) || Jan. 2023 - Present**
  Research area: Machine Learning for Energy System Dynamics
  Advisor: Dr Jochen Cremer

- **Master of Science (M.S) || Carnegie Mellon University (USA) || Jul 2021 - May. 2022**
  Specialization: Energy Systems and Applied Machine Learning
  GPA: 3.96/4.00
  Advisor: Professor Sarath Tennakoon, *Emeritus Professor of Power Electronic Systems*

- **Bachelor of Science (B.Sc.) || University of Ibadan (Nigeria) || Feb 2015 – Feb 2020**
  Major: Electrical and Electronic Engineering
  Grade: First Class (CGPA 6.4/7.0)
  Advisor: E.O Arogunjo, *MSc*

RESEARCH EXPERIENCE

- **Delft AI in Energy Lab (Netherlands) || Jan 2023 – Present**
  Doctoral candidate, Machine Learning for Energy Systems Dynamics
  Research Focus: Using state-of-the-art machine learning techniques to predict the dynamics of power grids under transient conditions
  Supervisor: Jochen Cremer *PhD*

- **Max Planck Institute of Biological Cybernetics (Germany) || Jul 2022 – Sept 2022**
  Summer Intern at Rolilab, Max Planck Institute of Biological Cybernetics, Tubingen
  Project: Using artificial neural networks as generative models to predict future behaviour in Zebrafish
  Supervisors: Dr Jennifer Li and Dr Drew Robson

PROFESSIONAL EXPERIENCE

Carnegie Mellon University Africa (Rwanda) ||Teaching Assistant || Oct 2022 – Dec 2022
Teaching Assistant for Photovoltaic Systems Engineering by Prof. Barry Rawn
- Supported course instructor with material preparation and delivery

- Graded student assignments and projects
- Conducted recitations for students and prepared work assignments
- Conducted office hours to assist students with assignments and respond to questions

Plentify (South Africa)|| Data Science Intern ||May 2022 – July 2022
A technology startup building a smart platform for electric grid load management in South Africa
- Designed a solution for securing database credentials to meet client's security specifications while inserting personally identifiable information into the database
- Developed an ML solution to the biggest customer pain point, a problem of unusually large false positives in leak sensor readings. Deployed algorithm reduced customer complaints by more than 50%

Elektron Energy Limited (Nigeria) ||Engineering Analyst ||May 2021 – July 2021
An energy infrastructure asset developer across West Africa
- Wrote technical documents including technical pre-feasibility reports for the due diligence process by funding partners
- Reviewed specification documents such as Bill of Engineering Measurement and Evaluation (BEME) sent by EPC contractors
- Coordinated activities across assets in a team of 3 to ensure over 95% uptime.

Robotics and Artificial Intelligence Nigeria (Nigeria) ||Course Instructor || May 2020 – May 2021
Nigeria's first Robotics and Artificial Intelligence Research Training Centre
- Taught Data Science/Machine Learning and Coordinated Artificial Intelligence Development trainees
- Designed a voice interaction system for smart home control for Adeus, a UK-based energy startup
- Carried out independent research on Computer Vision projects including automatic human height estimation and human traffic monitoring system

HONORS/AWARDS

- Carnegie Institute of Technology (CIT) dean's fellowship ($14000 scholarship) || 2021
- Petroleum Trust Development Fund Undergraduate Scholarship ($1200 annually for 3 years) || 2017
- Recipient, Agbami Science and Technology Award, Chevron ($500 annually for 4 years) ||2016
- Recipient, Total Undergraduate Merit Scholarship ($500 annually for 4 years) || 2016
- Jsay Prevarsity Award of Excellence ($3000 full tuition waiver and examination fee) || 2014
- Best Graduating Student, Oritamefa Baptist Model School || 2014

PUBLICATION

- O. Adedeji, P. Owoade, O. Arowolo, O. Ajayi, "*Image Augmentation for Satellite Images*", ARXIV preprint: https://arxiv.org/abs/2207.14580 || Jul 2022
- O.F Arowolo, E.O Arogunjo, D.G Owolabi and E. Markus, "*Development of a Human Posture Recognition System for Automated Surveillance*" IJCDS, University of Bahrain || Dec 2021
  https://journal.uob.edu.bh/handle/12345678/497

COMMUNITY INVOLVEMENT (Volunteer Work)

- General Secretary, Student Christian Movement of Nigeria, University of Ibadan ||2018 - 2020
- A'level Chemistry Teaching Assistant, Jsay Prevarsity ||2016

PROFESSIONAL MEMBERSHIP

- Institute of Electrical and Electronics Engineers (IEEE) student member