

Mary Salami

PHD STUDENT · GEOGRAPHIC INFORMATION SCIENCE
University of California, Santa Barbara.CA

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Education

University of California, Santa Barbara

California, USA

PHD GEOGRAPHIC INFORMATION SCIENCE

September, 2022 - present

- Advisor: Dr. Somayeh Dodge

Obafemi Awolowo University

Osun, Nigeria

BS SURVEYING AND GEOINFORMATICS

2015-2020

- Minor in Computer Science
- Honors thesis/undergrad research advisor: Dr.Oluwadare

Research Area

Spatial Information Retrieval, Human Mobility, Deep Learning, GeoAI

Research Experience

STC Center, George Mason University

Virginia, USA

SUMMER RESEARCHER

Jun. 2022 - Aug. 2022

- Revised and improved a social media classification algorithms
- Improved functionality of satellite2 map application to determine its performances of the multi-GPU mode on AC922
- Contributed to research writing, documentation and weekly presentation

Data Science Nigeria (funded by Bill and Melinda Gate Foundation)

Remote & Lagos, Nigeria

RESEARCH SCIENTIST

Sept. 2021 - Aug. 2022

- Developed a Speech to Text model for call center conversations that supports Medical terms, Medical Products and Nigeria English tonation which aided Medical Audio Analytics
- Developed a medical chatbot to aid frequently asked questions by product users
- Developed a behavioral model to classify customers intents during the conversation
- Led a team of five to build a behavioral model application to classify customers intents during the conversation

Data Science Nigeria)

Lagos, Nigeria

RESEARCH INTERN

Sept. 2020-Aug 2021

- Provided a GIS technical services and support particularly related to city/county applications using Java Open Street Map (JOSM), QGIS and ESRI Product
- Developed a model to reduce the spread of misinformed messages related to the COVID-19 pandemic
- Contributed to the development of building a Retail audit Computer Vision model using YOLO architecture to recognise over 500 FMGCs products in Nigeria to determine the visibility and providing detailed analytics based on the detected FMGCs products
- Developed a Generative model that generate 40000 African wears to ensure Africa data curation for computer vision tasks

Undergraduate Research (Dr.Oluwadare Caleb)

Osun, Nigeria

RESEARCHER FOR <ANALYTICAL USE CASES OF ZENVUS BOUNDARY APPLICATION>

Apr. 2020-Jun 2020

- Researched means of retrieving a corresponding video based on image contents using image similarity algorithm.
- Implemented prototype that users can obtain torrent magnet links of corresponding video relevant to an image on web site.

Industry Experience

Omooye IDSL

GEOSPATIAL DATA ANALYST

Ogun, Nigeria

Aug 2020 - May 2021

- Developed a new geo web app that focuses on identifying client's location while maintaining relationship with marketing team for effective production.
- Created a database that included complex queries for manipulating and standardizing Customer data.

Assesco Nigeria)

GIS CONSULTANT

Remote

Jun. 2020- Aug.2020

- Developed a land-cover classification model for detecting vegetation cover.
- Geospatial Analytics Successfully managed large, time-sensitive projects involving digitization of buildings and property parcels

GIS Konsult Limited)

GIS INTERN

Oyo, Nigeria

Sept 2018- March 2019

- Designed a Geo-form for waste monitoring application.
- Proposed various marketing and network activities to raise awareness.
- Developed a network analysis predictive model for a pickup service

Publications

JOURNALS

Oluwadare, C.O **Salami Mary**, 2022. Comparative Analysis of Smartphones and Survey-Grade GNSS Receivers for Parcel Boundary Determination. Journal of Geoinformatics and Environmental Research, 3: 10-12.

CONFERENCES

Olubayo A., Wuraola O., **Salami M.** , David O., Amina R., Emmanuel A., Dominique M., Olaniyi O., Chidinma O., William S., Masduk A.2022. AI Powered Understanding of Family Planning Behavioral Change Using the Fogg Model. International Conference for Learning Representatives.

Wuraola Fisayo Oyewusi, Olubayo Adekanmbi, Warri Warri, Adedayo Odukoya ,Abimbola Olawale, Opeyemi Osukuade, **Salami Mary Idera**. COVNLP: A Multisource COVID-19 dataset for Natural Language Processing(2022). Social Impact of AI for Africa workshop, Association for the Advancement of Artificial Intelligence.

Wuraola O., **Salami M**, Opeyemi Osakuade, Sharon Ibejih, Olubayo Adekanmbi, Olalekan Akinsande. AFRIFASHION40000: A GAN-generated African Fashion Dataset for Computer Vision.In Proceedings of 35th Conference on Neural Information Processing Systems (NeurIPS 2021), Sydney, Australia.2021

Salami M, Wuraola O., Olubayo Adekanmbi. AFRIGAN: African Fashion Style Generator using Generative Adversarial Networks.Black in AI workshop, Neural Information Processing Systems,2021.

Wuraola O., Olubayo A., Sharon I., Opeyemi O., I., **Salami M**, AFRIFASHION 1600: Contemporary African Fashion Dataset for Computer Vision. In Proceedings of IEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2021.

Wuraola O., Olubayo A., Ifeoma O.,**Salami M.**, Opeyemi O., Sharon I., Vitus O., Artificial Intelligence for Pharmacovigilance in Nigerian Social Media Text.In Proceedings of AI for Public Health, ICLR,2021.

Wuraola O., Olubayo A., Ifeoma O., Vitus O., **Salami M.**, Opeyemi O., Sharon I., Musa, NaijaNER: Comprehensive Named Entity Recognition for 5 Nigeria Languages, arXiv preprint arXiv:2105.00810.

Talks & Tutorials

2022 **Presenter**, Deep Learning Indaba

Tunis,Tunisia

2021 **Poster Presenter**, Africa NLP,EACL

virtual

2021 **Poster Presenter**, AI for Public Health,International Conference on Learning Representations

virtual

Honors & Awards

INTERNATIONAL

2022 **Travel Grant**, Deep Learning Indaba Africa *Tunis, Tunisia*

DOMESTIC

2021 **1st Place, Poster Award**, Deep learning Indaba *Nigeria*

2019 **Finalist**, AI bootcamp Hackathon *Lagos, Nigeria*

Skills

Programming & Softwares Python, Data Science Libraries(NumPy, Matplotlib, Tensorflow, Spacy), ArcGIS, Tableau, MySQL

Presentation Microsoft Office Suite, LaTeX, Public Speaking and Storytelling

Languages English and Yoruba

Teaching Experience

Fall, 2022 **Teaching Assistant**, Maps and Spatial Reasoning *UCSB*

2019 **Tutor**, D4 Geomatics *Nigeria*

Professional Development

2021 **Deep Learning Perception on Robotics**, AI and Robotics Summer School *Virtual*

2020 **Spatial Data Science**, ESRI *online*

2020 **Business Analyst Nanodegree**, Udacity *online*

2019 **AI Bootcamp**, Data Science Nigeria *Lagos, Nigeria*

2018 **Geographic Information System**, GISKonsult *Oyo, Nigeria*

Services and Outreach

2022 **Community Lead**, She Code Africa *Nigeria*

2022 **Data Science team lead**, Risigner *Remote*

2021 **Events lead**, African Women in GIS *Remote*

2021 **Technical member**, European Chapter of the Association for Computational Linguistics *Remote*

2021 **Nigeria Ambassador**, AI Exponential Thinker *Remote*

2020 **Undergraduate Class Representative**, Obafemi Awolowo University *Osun, Nigeria*