

SALAMI MARY IDERA

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EDUCATION

Fall, 2022	Ph.D. Geographic Information Science(In view)
2015-2020	BSc. Surveying and Geoinformatics Obafemi Awolowo University, Nigeria <u>Thesis:</u> <i>Comparison of Zenvus Boundary Application and GNSS for Parcel Boundary Determination</i> <u>Advisor:</u> Dr. C.O. Oluwadare
2011-2015	West Africa Senior School Certificate Examination (WASSCE) Newtrend High School, Lagos, Nigeria

RESEARCH INTEREST

Spatial Computing, Geospatial AI, Spatiotemporal Modelling, Health and Spatial Information Retrieval.

RESEARCH EXPERIENCE

2021-Pres.	Research Assistant <u>Project Title:</u> Comparison of Zenvus Boundary Application and GNSS for Parcel Boundary Determination <u>Project Status:</u> Manuscript in progress <u>Advisor:</u> Dr. C.O. Oluwadare <u>Synopsis:</u> To compare the result of analyzed positions from the Zenvus mobile application and GNSS <u>Duties:</u> Collection of data, conceptualized the project idea, reviewed literature, interacted with other decision-making experts, wrote the research proposal, developed questionnaire and performed analysis, contributed to developing the manuscript for publication
2021	Research Assistant <u>Project Title:</u> Artificial Intelligence for Pharmacovigilance in Nigerian Social Media Text <u>Project Status:</u> project published <u>Advisor:</u> Dr. Olubayo Adekanmbi <u>Synopsis:</u> A framework that leverages the named entity recognition for information retrieval and extraction to identify adverse drug reactions and medical entities in Nigeria social media conversations <u>Duties:</u> Collection of data, conceptualized the project idea, prepare a research proposal, reviewed literature, performed data analysis and contributed to writing the research paper

2021

Research Assistant

Project Title: AFRIFASHION 1600: Contemporary African Fashion Dataset for Computer Vision

Project Status: project published

Advisor: Dr. Olubayo Adekanmbi

Synopsis: A dataset that was created to improve the visibility and familiarity of Africa Fashion in Computer task

Duties: Data collection, perform data cleaning, review literature and contributed to writing the research paper

2021

Lead Investigator

Project Title: NaijaNER: Comprehensive Named Entity Recognition for 5 Nigeria Languages

Project Status: project published

Advisor: Dr Olubayo Adekanmbi

Synopsis: The information extraction using Named Entity Recognition on Nigeria Languages

Duties: Conceptualized the project idea, data collection, prepared a research proposal, reviewed literature, performed data analysis and wrote the research paper

PUBLICATIONS

Olubayo Adekanmbi, Wuraola Fisayo Oyewusi, **Salami Mary Idera**, David Oden, Amina Rufai, Emmanuel Akeweje, Dominique Meekers, Olaniyi Olutola, Chidinma Onuoha, William Sambisa, Masduk Abdulkarim. AI-Powered Understanding of Family Planning Behavioral Change Using the Fogg Model (2022). *Practical Machine Learning for Developing Countries, ICLR*.

Wuraola Fisayo Oyewusi, Olubayo Adekanmbi, Warrie Warrie, 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*, online

Salami Mary Idera, Wuraola Fisayo Oyewusi, Olubayo Adekanmbi. AFRIGAN: African Fashion Style Generator using Generative Adversarial Networks (2021). *Black in AI, Neural Information Processing Systems*, online

Wuraola Fisayo Oyewusi, Olubayo Adekanmbi, Sharon Ibejeh, Opeyemi Osukuade, Ifeoma Okoh, **Salami Mary Idera** (2021). AFRIFASHION 1600: Contemporary African Fashion Dataset for Computer Vision. *Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, pp.3968-3972.

Wuraola Fisayo Oyewusi, Olubayo Adekanmbi, Ifeoma Okoh, **Salami Mary Idera**, Opeyemi Osukuade, Sharon Ibejeh, Vitus Onuigwe (2021). Artificial Intelligence for Pharmacovigilance in Nigerian social media Text, *AI for Public Health, ICLR*, online

Wuraola Fisayo Oyewusi, Olubayo Adekanmbi, Ifeoma Okoh, Vitus Onigwue, **Salami Mary Idera**, Opeyemi Osukuade, Sharon Ibejeh, Musa (2021). NaijaNER: Comprehensive Named Entity Recognition for 5 Nigeria Languages. *arXiv preprint arXiv:2105.00810*.

MANUSCRIPT IN REVIEW & IN PREPARATION

Oluwadare, C.O & **Salami Mary**. Comparison of Zenvus Boundary Application and GNSS for Parcel Boundary Determination. *In review* Journal of Geoinformatics and Environmental research.

AWARDS AND RECOGNITION

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| 2021 | Best Poster Presentation
Awarded by IndabaX Nigeria after presenting AFRIFASHION1600: A Contemporary African Fashion Dataset for Computer Vision at the IndabaX conference. |
| 2020 | Artificial Intelligence Bootcamp Program
Awarded by Data Science Nigeria after an intensive qualification process on Kaggle to participate in an in-person training and most renowned Bootcamp in Africa |

WORK EXPERIENCE

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| 2020-Pres. | Researcher/Solution Analyst, Data Science Nigeria
<u>Duties:</u> Develop a model to reduce the spread of misinformed messages related to the COVID-19 pandemic, developing manuscripts and preparing reports, perform tasks such as data cleaning, data wrangling, data managing and visualization, data modelling and training statistical model, assist with building geospatial application for identifying products availability in different locations. |
| 2020-2021 | Geospatial Data Analyst, Omooye IDSL
<u>Duties:</u> Developed a geo web app for marketing, created a database that included complex SQL queries for manipulating and standardizing data to increase the accuracy and efficiency of geocoding records, prepared documentation and presentation of results for all work done. |
| 2020 | GIS Consultant, Asseco Nigeria Limited
<u>Duties:</u> Developed a land-cover classification model for detecting vegetation cover and performed tasks such as digitizing buildings and parcels of land. |
| 2018-2019 | Geospatial Data Analyst Intern, GISKonsult Limited
<u>Duties:</u> Designed a Geo-form for waste management dataset of an area using an online-based mapping solution, created a visual representation of geospatial data using complex procedures such as 3d modelling, developed a network analysis model for a pickup service predicting the time of delivery and managed, analyzed, visualized spatial and non-spatial data to solve complex problems with conflicting alternatives. |
| 2017 | GIS Intern, Cooperative information Network (COPINE) |

Duties: Participated in training health practitioners in using GIS for epidemiology control, created and analyzed geospatial data, using Global positioning system (GPS) and performed spatial queries.

CONFERENCES & WORKSHOPS

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| 2021 | Deep Learning Perception on Robotics
<u>Course Instructor:</u> Dr Xavier Giro, Alberto Sanfeliu
<u>Organization:</u> AI and Robotics Summer School |
| 2021 | International Exhibition of Posters on Spatial Research
<u>Theme:</u> Spatial Data Science for a sustainable future
<u>Organization:</u> Center for spatial studies, UCSB with international Young Geographers |
| 2021 | Africa NLP
<u>Course Instructor:</u> Sabelo Mhlambi, Melissa Omino, Kola Tubosun
<u>Organization:</u> European Association for Computational Linguistics (EACL) |
| 2021 | Artificial Intelligence for Public Health
<u>Course Instructor:</u> Prof. Ziad Obermeyer, Prof. Michaela van der Schaer, Dr. Suvrit Sra, Prof. Susan Murphy, Dr Nuria Olivia,
<u>Organization:</u> International Conference on Learning Representations |
| 2020 | Spatial Data Science Conference
<u>Organization:</u> CARTO |

TEACHING EXPERIENCE

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| 2019 | Tutor
D4 Geomatics (~20 students)
<u>Duties:</u> Taught digitization of maps, GIS analytical procedures, Python programming with GIS |
| 2015 | Teacher
Science class, Excellent Seed High School (~50 students)
<u>Duties:</u> Taught Geography and organized various platforms like competitions for students to apply their acquired skills. |

DEPARTMENT LEADERSHIP AND SERVICES

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| 2020-Pres. | Chapter Lead, She Code Africa
<u>Duties:</u> Lead and engage communication channels for the community, organize events, communicate project developments and draft strategic recommendations, engage the community in online platforms and in-person events to promote their learning. |
| 2019-Pres. | Content Lead, African Women in GIS
<u>Duties:</u> Write and post content on social media platforms to help women in technology, organize events and contribute to the development of the community |

2021	Technical team, European Chapter of the Association for Computational Linguistics <u>Duties:</u> Facilitated the overseeing of the technical part of assigned session.
2019-2020	Nigeria Ambassador, AI Exponential Thinker <u>Duties:</u> Prepared materials to educate kids, wrote articles to promote artificial intelligence in Nigeria, organized events in different technology sectors.
2015-2019	Class Representative BSc. Surveying and Geoinformatics, 2018/2019-year group <u>Class advisor:</u> Dr. C.O Oluwadare <u>Duties:</u> Expressed student concerns/issues to the class tutor, represented the class at department student council meetings, ensure students' views regarding academic matters are appropriately channeled, prepare a conducive atmosphere before lectures, ensure that the relevant reading materials and information get to students on time.

STUDENTS MENTORED

2020-Pres.	Oyeyiola Mariam Olatohun (M.A Computational Linguistics)
2020-Pres.	Ofomiyonwon Oluwatoba Ayo (BSc. Surveying and Geoinformatics, 4 th year)
2021	Akinremi Bunmi (BSc. Computer Science, 3 rd year)
2021	Salimon Abiodun (BSc. Surveying and Geoinformatics, 5 th year)
2019	Olusanya Joy Naomi (BSc. Linguistics, 2 nd year)

PROFESSIONAL DEVELOPMENT

2020	Spatial Data Science <u>Center:</u> Esri, MOOC <u>Overview:</u> Spatial data preparation, exploration, visualization, modelling and prediction
2020	Business Analyst Nanodegree <u>Center:</u> Udacity <u>Overview:</u> Introduction to data, business metrics, forecasting sales, financial metrics, SQL for data analysis and data visualization using tableau
2019	AI Bootcamp <u>Center:</u> Data Science Nigeria, Yaba. <u>Overview:</u> Introduction to Geospatial Data Analytics, introduction to deep learning and concepts of machine learning
2019	Geographic Information System <u>Center:</u> GISKonsult, Ibadan, Nigeria <u>Overview:</u> Spatial and non-spatial data collection, analysis and interpretation for effective decision making.

RELEVANT SKILLS

Software and Programming Skills: Data Collection and Analysis, Machine Learning, Data Science Libraries (Pandas, NumPy, Matplotlib, Tensorflow, Spacy etc.), Python, ArcGIS packages, ENVI, Tableau, MySQL, Remote Sensing.

Presentation Skills: Microsoft Office Suite, LaTeX, Public Speaking and Storytelling

Language: English and Yoruba

REFERENCES

References furnished upon request