Shamsuddeen Hassan Muhammad, PhD

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Academic and Research Experience

2025 – ⋯   **Visiting Lecturer**
African Institute for Mathematical Sciences (AIMS) Cameroon.

2023 – ⋯   **Advanced Research Fellow**
Imperial College London, UK

Google DeepMind Academic Fellow
Imperial College London, UK

Visiting Lecturer
York St John University,UK

2020 – 2023   **NLP Researcher, INESCTEC Porto, Portugal**
INESCTEC Porto, Portugal

2012 – ⋯   **Lecturer,**
Department of Computer Science, Bayero University, Kano–Nigeria.

2010 – 2012   **Lecturer,**
Department of Computer Science, Saadatu Rimi College of Education, Kano State-Nigeria

Education

2023   **Ph.D. in Computer Science, University of Porto, Portugal**.
Thesis Title: *Domain-Specific and Context-Aware Approaches to Sentiment Analysis*.
Supervisor: *Pavel Brazdil*

2013   **M.Sc. in Computer Science, University of Manchester, UK**.
Dissertation Title: *Error-Correcting Codes in Wireless Communication*.
Supervisor: *Barry Cheetham*

2009   **B.Sc. in Computer Science, Bayero University, Kano**.

Research Interest

Computational Social Science: Sentiment Analysis, Hate Speech Detection, Emotion Analysis

Low-Resource Languages: Dataset Creation, Data Annotation, LLM Evaluation, and Adaptation

Multilingual NLP: Enhancing Models for Underrepresented Languages and Cultures

Grants and Awards

Grants

2023   Principal-Investigator: Nigerian AI Research Grant for Automatic Offensive Language Detection for Nigerian Languages (5,000,000 Naira)

2022   Principal-Investigator: Artificial Intelligence for Education Innovation Research Network in Africa (40,000 USD)

      Principal-Investigator: Lacuna Fund 2021 Language Datasets Award: Development of Hate Speech Dataset for African Languages (147,000 USD)

      Co-Investigator: Lacuna Fund Grant for Developing Nigerian Speech Corpus (120,000 USD)

2021   Principal-Investigator: Lacuna Fund 2020 Language Datasets Award: Development of Sentiment Analysis Dataset for African Languages (60,000 USD)

      Principal-Investigator: Lacuna Fund Grant for SemEval Shared Task (8,500 USD)

2023   Co-PI: Google Research exploreCSR award (18,000 USD)

      Co-PI: Google Research TensorFlow award (10,000 USD)

2022   Principal Investigator: Oracle OCI Award (50,000 USD)

      Co-PI: Google Research exploreCSR award (18,000 USD)

      Co-PI: TensorFlow award (10,000 USD)

Awards

2024   Google DeepMind Academic Fellow at Imperial College London, UK

      Honourable Mention: Best Paper Award for the SemEval Task Description Paper on Semantic Textual Relatedness.

2023   Area Chair Award at IJCNLP-AACL for the MasakhaNEWS Paper

      Best Paper Award, AfricaNLP workshop 2023, Kigali Rwanda.

      IRCAI, Global Top 100 list 2022, international list of AI solutions for reaching the 17 SGDs.

2022   Google Africa Travel Award. (3,000 USD)

      RStudio Conference Travel Award. (1,500 USD)

      EMNLP Conference Travel Award. (1,500 USD)

      Faculty of Science, UPorto, PhD Scholarship Award. (52,000 EURO)

2021   Best Paper Award at the AfricaNLP Workshop @EACL for the MasakhaNER Paper

2022   Jiangsu University(JSU), China, PhD scholarship, Award (Declined).

2018   Nigerian TetFund Ph.D. Scholarship Award.

      NITDA MSc Scholarship Award (25,000 USD).

      Black in AI Travel Award to NeurIPS 2022, Value of Award (1,100 USD)

      Kano State Govt-Nigeria , Postgraduate Scholarship to Study MSc in Computer Science.

      Second Best Computer Science Graduating Student Award, Bayero University, Kano-Nigeria

Teaching Experience

- Artificial Intelligence Concept: Lecturer, York St John University, London Campus (2024)
- Machine Learning: Lecturer, York St John University, London Campus (2024)
- Machine Learning: Teaching Assistant, Imperial College London (2024)
- Natural Language Processing: Teaching Assistant, Imperial College London (2025)
- Deep Learning: Lead Teaching Assistant, NeuroMatch Academy (2023)
- Python Programming: Lecturer, Bayero University, Kano (2017)
- Data Structures and Algorithms: Lecturer, Bayero University, Kano (2016)
- Data Mining: Lecturer, Bayero University, Kano (2016)

Teaching Certificates

2019 **Teaching in Higher Education, University of Porto, Portugal**.
Certificate for teaching in higher education.

2020 **Certified Instructor, The Carpentries**.
Certified instructor in teaching foundational computational and data skills to researchers using R and Python programming languages.

Leadership and Community Involvement in Data Science

2022 Co-founder, Arewa Data Science: `https://arewadatascience.github.io`
A community for empowering marginalized students to reach their full potential in data science.

Co-founder, HausaNLP: `https://hausanlp.github.io`
HausaNLP is an open-source community dedicated to advancing natural language processing in the Hausa language, which is the second most widely spoken language in Africa.

Active Member of MasakhaneNLP and Black in AI Community.

Volunteer Service

- Area Chair: ACL Rolling Review (ARR)
- Reviewer: ACL, EMNLP, NAACL, COLING, LREC, AfricaNLP
- Organizer: AfricaNLP, SemEval Shared Tasks

Academic Service

Service to the University

- Imperial College, Grant Review Member
- Senate Member, Bayero University, Kano
- Faculty Examination Lead, Bayero University, Kano
- BSc Computer Science with Economics course Leader

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