

Shamsuddeen Hassan Muhammad

(Curriculum Vitæ, March 2021)

Teaching/Research Positions

- February **Certified Instructor**, *The Carpentries*.
2021-date Teaching foundational computational and data skills to researchers, e.g., programming basics in R and Python, use of the command line, and version control.
- April **NLP Researcher At Mashakane, coordinating Hausa Language**, *Masakhane is a grass-roots organisation whose mission is to strengthen and spur NLP research in African languages, for Africans, by Africans.*, <https://www.masakhane.io>.
2020-date
- March **Founder HausaNLP**, *An open source NLP research community building Hausa natural language processing resources*, <https://hausanlp.org>.
2019-date
- May **Researcher**, *INESC TEC - Institute for Systems and Computer Engineering, Technology and Science*.
2019-date Undertaking Research on Sentiment Analysis
- April **Faculty Member**, *Faculty of Computer Science and Information Technology, Bayero University, Kano-Nigeria*.
2012-date Some courses taught: Introduction to Data Mining, Data Structures, Design and Analysis of Algorithm, Web Application, and supervised undergraduate project
- October **Faculty Member**, *Saadatu Rimi College of Education, Kano-Nigeria*.
2010-April Some Courses taught: Mathematics for Computer Science and Analysis of Algorithm
2012

Education

- Ongoing **Doctor of Philosophy (PhD)**, *Department of Computer Science, University of Porto, Portugal*.
- September **MSc Advanced Computer Science (MSc)**, *Department of Computer Science, University of Manchester, UK*.
2013
- January **BSc Computer Science (Second Best Student)**, *Faculty of Computer Science and Information Technology, Bayero University, Kano-Nigeria*.
2009

Research Interests

- Natural Language Processing
- Sentiment Analysis
- Machine Learning
- Deep Learning
- Low Resource Languages

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Honors, Scholarships and Fellowship

- 2021 **Open Life Science Fellow**, *Open Life Science*.
The Open Science program helps individuals and stakeholders in research to become Open Science ambassadors.
- 2020 **Google COVID-19 Research Grants for cloud credits**.
- 2020 **FCUP MAPi-PhD Research Grant**:, *Four year research grant for PhD in Computer Science*.
- 2020 **Summer School on Machine Learning and Big Data with Quantum Computing attendance scholarship**, *Porto, Portugal, September 7-8, 2020* .
- 2020 **European Conference on Information Retrieval(ECIR2020) Attendance Scholarship**, *Lisbon, Portugal, 2020*.
- 2019 **Facebook**, *Scholarship for Deep Learning Course through Udacity*.
- 2019 **INESC Technology and Science - Associate Laboratory**, *1-year Graduate Research Grant*.
- 2019 **9th Lisbon Machine Learning Summer School**, *Scholarship* , provided by OutSystem Portugal .
- 2018 **Foundation for Science and Technology, Portugal, MAP-i PhD scholarship** , Among the only six people that won the scholarship, but the offer was declined because of non-Portuguese equivalent degree.
- 2018 **Vision Understanding and Machine Intelligence (VISUM) summer school scholarship award**, *sponsor by MAP-i PhD scientific committee*, .
- 2018 **Association for Computing Machinery (ACM), the Very Large Data Bases (VLDB) Endowment fund, Google, and Stanford University**, *Travel Grant and Scholarship on short-course on big data*.
- 2012 **National Information Technology and Development Agency (NITDA) Award (Best student in Computer Science in 2012)** , *Among the only two students selected (from 65) from Kano state-Nigeria to for postgraduate Scholarship to Study MSc at the University of Manchester, UK*.
- 2012 **Kano State Govt-Nigeria** , *Postgraduate Scholarship to Study MSc in Computer Science (Rejected the offer)* , Turkey.
- 2009 **John T. Chambers** , **Letters of Commendations for Cisco Modules**, *Cisco Systems* .
- 2009 **Second Best Computer Science Graduating Student Award** , *Bayero University, Kano-Nigeria* .
- 2009 **Nigerian Association of Computer Science Students(NACOSS) Patron Award**, *Bayero University, Kano-Chapter* .

Skills and Tools

Data Analysis and Statistics	Machine Learning, Deep Learning, Natural Language Processing
Programming	Python(Pandas, NumPy, SciPy, scikit-learn, TensorFlow, Keras, PyTorch, NLTK), R(Tidyverse)
Data Tools	RapidMiner , Knime
Visualization	Python(matplotlib, seaborn), R(ggplot2, ggvis), \LaTeX , RMarkdown

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Version Git and GitHub
Control
Business Plotly , Tableue, Shiny
Intelligence

Organization of Conferences

- **Member of the Organising Committee** SautiYetu AfricanNLP Unconference October 2020.
- **Member of the Organising Committee** on the First International Workshop on Artificial Intelligence for Narratives, July 13, 2020 – Yokohama, Japan
- **Member of the Organising Committee** on the First edition of MAPis International conference on scientific meeting in the field of Computer Science for PhD students, Febuary,2019
- **Member of the Organising Committee** on International Collegiate Programming Contest World Final-43rd annual World Finals, 2019, Porto.

Membership

- **IEEE** Member, 2012 (International)
- **IACSIT** Member, International Association of Computer Science and Information Technology (IACSIT),2015
- **CSTA** Member, Computer Science Teachers Association (CSTA)
- **ASUU** Member, Academic Staff Union of Universities (Nigeria).

Publications

D. Adelani, Jade Abbott, Graham Neubig, Daniel D'Souza, Julia Kreutzer, Constantine Lignos, Chester Palen-Michel, Happy Buzaaba, Shruti Rijhwani, Sebastian Ruder, Stephen Mayhew, Israel Abebe Azime, and S. Muhammad et.al. Masakhaner: Named entity recognition for african languages. *ArXiv*, abs/2103.11811, 2021.

Isaac Caswell, Julia Kreutzer, Lisa Wang, Ahsan Wahab, D. V. Esch, Nasanbayar Ulzii-Orshikh, Allahsera Tapo, Nishant Subramani, A. Sokolov, Claytone Sikasote, Monang Setyawan, S. Sarin, Sokhar Samb, B. Sagot, Clara Rivera, Annette Rios Gonzales, Isabel Papadimitriou, S. Osei, Pedro Javier Ortiz Suárez, Iroko Orife, Kelechi Ogueji, Rubungo Andre Niyongabo, Toan Q. Nguyen, Mathias Muller, A. Muller, and et.al S. Muhammad. Quality at a glance: An audit of web-crawled multilingual datasets. *ArXiv*, abs/2103.12028, 2021.

Nekoto Wilhelmina et.el. Participatory research for low-resourced machine translation: A case study in African languages. In *Findings of the Association for Computational Linguistics: EMNLP 2020*, pages 2144–2160, Online, November 2020. Association for Computational Linguistics.

Ibrahim Said Ahmad, Azuraliza Abu Bakar, Mohd Ridzwan Yaakub, and Shamsuddeen Hassan Muhammad. A survey on machine learning techniques in movie revenue prediction. *SN Computer Science*, 1(4):1–14, 2020.

Shamsuddeen Hassan Muhammad, Pavel Brazdil, and Alípio Jorge. Incremental approach for automatic generation of domain-specific sentiment lexicon. In *European Conference on Information Retrieval*, pages 619–623. Springer, 2020.

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Shamsuddeen Hassan Muhammad. An overview of sentiment analysis approaches. In *MAPiS2019 -First MAPi Seminar Proceeding*, pages 65–70, 2019.

Shamsuddeen Hassan Muhammad and Abdulrasheed Mustapha. A form of list viterbi algorithm for decoding convolutional codes. *U. Porto Journal of Engineering*, 4(2):42–48, 2018.

Abdulrasheed Mustapha, Shamsuddeen Hassan Muhammad, and Saheed Abdullahi Salahudeen. Massive open online courses: A success of cloud computing in education. In *OcRI*, pages 141–151, 2016.

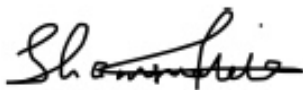
Shamsudeen H Muhammad, Abdullahi S Salahudeen, Saminu M Aliyu, and A Mustapha. The Need to Accelerate Cloud Adoption in Developing Countries of Africa. *Journal of Computer Science Engineering and Software Testing*, (1):1–9.

Muhammad S.H, Mustapha A, and K Haruna. Massive Open Online Courses : Awareness , Adoption , Benefits and Challenges in Sub- Saharan Africa. *Open Journal of Cloud Computing*, (1):1–8, 2016.

S.H. Muhammad, B.S. Galadanci, A. Mustapha, and A.S Yahaya. Design and implementation of an android and web-based university timetable customization system. *Bayero Journal of Pure and Applied Sciences*, 10(1):320, 2017.

K Haruna, Ab Baffa, and SH Muhammad. A Framework for Implementation of E- Classroom System. *International Journal of ICT and Management*, (December), 2016.

31st March 2021



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