

JESUJOBA OLUWADARA ALABI – CURRICULUM VITAE

CONTACT

Position: Researcher, Spoken Language Systems (LSV) Group, Saarland Informatics Campus, Germany

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Research Interests: NLP for low resource settings/languages, representation learning, explainability/interpretability of NLP models, neural machine translation

EDUCATION

- **Universität des Saarlandes, Saarbrücken, Germany** *Jun. 2022 - date*
Ph.D. Computer Science
Advisor: Prof. Dr. Dietrich Klakow
- **Universität des Saarlandes, Saarbrücken, Germany** *Oct. 2018 - Jul. 2021*
M. Sc. Computer Science
Overall CGPA: 1.7 (Best 1.0, Worst 5.0)
- **University of Ibadan, Ibadan, Nigeria** *Apr. 2017 - Feb. 2021*
M. Sc. Computer Science (Distinction)
Overall CGPA: 6.7/7
- **Bowen University, Iwo, Nigeria** *Aug. 2011 - Jul. 2015*
B. Sc. (First Class Hons.) Computer Science
Overall CGPA: 4.84/5

WORK EXPERIENCE

- Research Intern, NII Yamagishi Lab, National Institute of Informatics, Japan May, 2024 – Aug, 2024
- Research Engineer, ALMAAnaCH project-team, INRIA Paris Feb, 2022 – Jun, 2022
- Research Intern, Database and Information Systems group, MPI-I, Saarbrücken Aug, 2021 – Jan, 2022
- Research Assistant, Database and Information Systems group, MPI-I, Saarbrücken Sep, 2020 – Jul, 2021
- Research Assistant, Multilinguality and Language Technology, DFKI, Saarbrücken Nov, 2019 – Jul, 2020
- Application Developer, Dynamic Initiative Consult, Ibadan, Nigeria Oct, 2016 – Sep, 2018
- Graduate Teaching Assistant, Afe Babalola University, Ado-Ekiti, Nigeria Jan, 2016 – Sep, 2016
- Industrial Training Student, NIIT, Ibadan, Nigeria Feb, 2014 – Aug, 2014

PUBLICATIONS

JOURNALS

1. Soumajit Pramanik, **Jesujoba Alabi**, Rishiraj Saha Roy, Gerhard Weikum. UNIQORN: Unified Question Answering over RDF Knowledge Graphs and Natural Language Text. *In arXiv, 2021.* (under review)
2. David Adelani, Jade Abbott, Graham Neubig, ... , **Jesujoba O. Alabi**, ..., Tendai Marengereke and Salomey Osei. Named Entity Recognition for African Languages. *In TACL, 2021.* (Also accepted at AfricaNLP Workshop @ EACL 2021)

CONFERENCE

1. **Jesujoba O. Alabi**, Marius Mosbach, Matan Eyal, Dietrich Klakow and Mor Geva. The Hidden Space of Transformer Language Adapters. *ACL, 2024*. (to appear)
2. Miaoran Zhang, Vagrant Gautam, Mingyang Wang, **Jesujoba O. Alabi**, Xiaoyu Shen, The Impact of Demonstrations on Multilingual In-Context Learning: A Multidimensional Analysis. *Finding of ACL, 2024*. (to appear)
3. David Ifeoluwa Adelani, Hannah Liu, Xiaoyu Shen, Nikita Vassilyev, **Jesujoba O. Alabi**, Yanke Mao, Haonan Gao, and En-Shiun Annie Lee. SIB-200: A Simple, Inclusive, and Big Evaluation Dataset for Topic Classification in 200+ Languages and Dialects. *EACL, 2024*.
4. David Ifeoluwa Adelani, Marek Masiak, Israel Abebe Azime, **Jesujoba O. Alabi**, et al. MasakhaNEWS: News Topic Classification for African languages. *AAACL 2023*. (Also accepted at the 4th AfricaNLP Workshop @ ICLR 2023)
5. Aravind Krishnan, **Jesujoba O. Alabi**, Dietrich Klakow. On the N-gram Approximation of Pre-trained Language Models. *INTERSPEECH 2023*.
6. Cheikh M. Bamba Dione, David Ifeoluwa Adelani, Peter Nabende, **Jesujoba O. Alabi**, et al. MasakhaPOS: Part-of-Speech Tagging for Typologically Diverse African Languages. *ACL 2023*.
7. David Ifeoluwa Adelani, Graham Neubig, Sebastian Ruder, Shruti Rijhwani, Michael Beukman, Chester Palen-Michel, Constantine Lignos, **Jesujoba O. Alabi**, et al. MasakhaNER 2.0: Africa-centric Transfer Learning for Named Entity Recognition. In *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2022.
8. **Jesujoba O. Alabi***, David Ifeoluwa Adelani*, Marius Mosbach and Dietrich Klakow. Multilingual language model Adaptive Fine-Tuning: A Study on African Languages. In *29th International Committee on Computational Linguistics (COLING)*, 2022. (Also accepted at the 3rd AfricaNLP Workshop @ ICLR 2022)
9. Ernie Chang, **Jesujoba O. Alabi**, David Ifeoluwa Adelani and Vera Demberg. Dialogue Pidgin Text Adaptation via Contrastive Fine-Tuning. In *29th International Committee on Computational Linguistics (COLING)*, 2022. (Also accepted at the 3rd AfricaNLP Workshop @ ICLR 2022)
10. Josh Meyer, David Ifeoluwa Adelani, Edresson Casanova, Alp Oktem, Daniel Whitenack Julian Weber, Salomon Kabongo, Elizabeth Salesky, Iroko Orife, Colin Leong, Perez Ogayo, Chris Emezue, Jonathan Mukiibi, Salomey Osei, Apelete Agbolo, Victor Akinode, Bernard Opoku, Samuel Olanrewaju, **Jesujoba Alabi**, Shamsuddeen Muhammad. BibleTTS: a large, high-fidelity, multilingual, and uniquely African speech corpus. In *23rd Annual Conference of the International Speech Communication Association (INTERSPEECH)*, 2022.
11. David Ifeoluwa Adelani, **Jesujoba Alabi**, Angela Fan, Julia Kreutzer, Xiaoyu Shen, et al. A Few Thousand Translations Go a Long Way! Leveraging Pre-trained Models for African News Translation. In *NAACL*, 2022.
12. David Adelani*, Dana Ruiter*, **Jesujoba O. Alabi***, Damilola Adebajo, Adésinà Ayeni, Mofetoluwa Adeyemi, Ayodele Awokoya and Cristina España-Bonet. The Effect of Domain and Diacritics in Yorùbá-English Neural Machine Translation. In *MT Summit*, 2021.
13. Michael A. Hedderich, David Adelani, Dawei Zhu, **Jesujoba Alabi**, Markus Udia and Dietrich Klakow. Transfer Learning and Distant Supervision for Multilingual Transformer Models: A Study on African Languages. In *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.
14. **Jesujoba O. Alabi***, Kwabena Amponsah-Kaakyire*, David I. Adelani, and Cristina España-Bonet. Massive vs. Curated Word Embeddings for Low-Resourced Languages. The case of Yorùbá and Twi. In *12th International Conference on Language Resources and Evaluation (LREC)*, 2020

WORKSHOP PAPERS

1. Miaoran Zhang, Mingyang Wang, **Jesujoba O. Alabi** and Dietrich Klakow. AAdAM at SemEval-2024 Task 1: Augmentation and Adaptation for Multilingual Semantic Textual Relatedness. *18th International Workshop on Semantic Evaluation (SemEval-2024) @ NAACL 2024*.
2. Comfort Eseohen Ilevbare*, **Jesujoba O. Alabi***, David Ifeoluwa Adelani, Firdous Damilola Bakare, Oluwatoyin Bunmi Abiola and Oluwaseyi Adesina Adeyemo. EkoHate: Abusive Language and Hate Speech Detection for Code-switched Political Discussions on Nigerian Twitter. *The 8th Workshop on Online Abuse and Harms (WOAH) @ NAACL 2024*.

3. **Jesujoba O. Alabi** and Rachel Bawden. Exploring Inline Lexicon Injection for Cross-Domain Transfer in Neural Machine Translation. *First International Workshop on Knowledge-Enhanced Machine Translation @ EAMT 2024*.
4. Akindele Michael Olawole*, **Jesujoba O. Alabi***, Aderonke Busayo Sakpere, David Ifeoluwa Adelani. YAD: Leveraging T5 for improved automatic diacritization of Yorùbá text. *AfricaNLP Workshop @ ICLR 2024*.
5. Anuoluwapo Aremu, **Jesujoba O. Alabi**, David Ifeoluwa Adelani. YORC: Yorùbá Reading Comprehension dataset. *WiNLP @ EMNLP 2023*.
6. Idris Akinade*, **Jesujoba O. Alabi***, David I. Adelani, Clement Odoje and Dietrich Klakow. ε kú <mask>: Integrating Yorùbá cultural greetings into machine translation. *C3NLP Workshop @ EACL 2023*. (Also accepted at the 4th AfricaNLP Workshop @ ICLR 2023)
7. **Jesujoba O. Alabi**, Lydia Nishimwe, Benjamin Muller, Camille Rey, Benoît Sagot and Rachel Bawden. Inria-ALMAAnaCH at WMT 2022: Does Transcription Help Cross-Script Machine Translation?. *In Seventh Conference on Machine Translation (WMT), 2022*.
8. Idris Abdulmumin*, Michael Beukman*, **Jesujoba O. Alabi***, Chris Emezue, et al.. Separating Grains from the Chaff: Using Data Filtering to Improve Multilingual Translation for Low-Resourced African Languages. *In Seventh Conference on Machine Translation (WMT), 2022*.
9. Svetlana Tchistiakova, **Jesujoba Alabi**, Koel Dutta Chowdhury, Sourav Dutta and Dana Ruiter. EdinSaar's Submission to WMT2021 Multilingual Low-Resource North Germanic Translation Task. *In Sixth Conference on Machine Translation (WMT), 2021*.
10. David Adelani*, Dana Ruiter*, **Jesujoba O. Alabi***, Damilola Adebajo, Adésínà Ayeni, Mofetoluwa Adeyemi, Ayodele Awokoya and Cristina España-Bonet. MENYO-20k: A Multi-domain English-Yorùbá Corpus for Machine Translation and Domain Adaptation. *In Second AfricaNLP Workshop at EACL, 2021*.
11. Sourav Dutta*, **Jesujoba O. Alabi***, Saptarashmi Bandyopadhyay, Dana Ruiter and Josef van Genabith. UdS-DFKI@WMT20: Unsupervised MT and Very Low Resource Supervised MT for German \leftrightarrow Upper Sorbian. *In Fifth Conference on Machine Translation (WMT), 2020*.
12. Ibitoye A O, **Alabi J O**, Adediran A O, Enhanced Electronic Health Referral System. *proceeding of the 6th International Conference on Mobile eServices and Workshop on Design Thinking, Nigeria*. 2015, 6: 102-111.

POSTER PRESENTATIONS

1. **Jesujoba O. Alabi**, Marius Mosbach, Matan Eyal, Dietrich Klakow and Mor Geva. The Hidden Space of Transformer Adapters. *BlackboxNLP 2023* (extended abstract)
2. Jesujoba O. Alabi, David I. Adelani. Investigating the quality of pre-trained word embeddings in Yorùbá, a low-resource Language - *Black in AI Workshop(co-located with Neurips), 2019*

OTHER WRITINGS

1. Ibitoye A O, Borokini B, **Alabi J O**, Knowledge Based Performance Evaluation and Predictive Model for Undergraduate Students. *Asian Journal of Research in Computer Science* 2018, 2(3): 1-7.
2. Adeosun O O, Ibitoye A O, **Alabi J O**, REAL TIME E-BIOTECHNOLOGY VOTING SYSTEM; USING SECRET SPLITTING. *International Journal of Electronics Communication and Computer Engineering (IJECCCE)* 2015, 6: 624-627.

REVIEWING EXPERIENCE

- WMT 2022, AfricaNLP Workshop 2023, AfriCHI 2023, EMNLP 2023

HONORS AND AWARDS

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| • Best System Description Paper Award at SemEval 2024, NAACL 2024, Mexico | 2024 |
| • Area Chair Award(Resources and Evaluation) at the AACL 2023, Indonesia | 2023 |
| • Best Paper Award (Grand Challenge KISTI category) at the COLING 2022, South Korea | 2022 |

- 1st prize, AI4D Takwimu Lab - Machine Translation Challenge 2021
- Saarland Scholarship for International Students (STIBET III DAAD Graduation Grant) 2020
- Black in AI travel grant to attend the 2019 Neurips at Vancouver 2019
- Faculty Award for Best Graduating Student in the Faculty of Science and Science Education for 2014/2015 Academic Session 2015
- Vice-Chancellor's Prize for the Best Graduating Student in the Faculty of Science and Science Education for 2014/2015 Academic Session 2015
- New Horizon Laptop Prize for Best Graduating Student in the International Professional IT and E-Business Certification Program(CISCO CERT) for 2014/2015 Academic Session. 2015
- Rev. Leslie Tuller Memorial Scholarship (Bowen University) 2014
- Dean's Honors Roll Award List 2012

TECHNICAL SKILLS

- Software Languages: Object Oriented Programming with Python and Java, R, JSP, Php
- Proficient in Machine Learning and Deep Learning
- Experience with Pytorch, Keras, Tensorflow and Scikit-learn, Fairseq, Open-NMT
- Software: RStudio, Anaconda-Navigator, Netbeans, Pycharm